```
Database
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 s
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Run
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Maximum DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      OM protein - protein search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ptal number of
                                                                                                                                                                                                                                                                                                                                                                                                       ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     on :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ..
                    153.5
153.5
150.5
138
115.5
110.5
110.5
110.5
100.5
98.5
98.5
                                                                                                                                                                                                                                                                                                                       202
171.5
166.5
                                                                                                                                                                                                                                                                                                                                                                                                     Score
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             seq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             length: 0
length: 2000000000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SPTREMBL_16:*
1: sp_archea:*
2: sp_bacteria
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                   Match
                                                                                                                                                                                                                                                                                                                                                                                                                        Query
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               7:
8:
9:
10:
11:
12:
13:
  110.54
110.54
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.55
10.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BLOSUM62
Gapop 10.0 ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-09-265-540E-2
1627
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             425026 seqs, 132305027 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   October 12,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GenCore version Copyright (c) 1993 - 2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MQTFTMVLEEIWTSLFMWFF......VDACATAVMSPEELLRAWIS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              sp_phage:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       sp_archea:*
sp_bacteria:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  sp_organelle: *
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 sp_fungi:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       sp_mhc:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       sp_mammal:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            sp_invertebrate:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                sp_unclassified:*
sp_vertebrate:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           sp_rodent:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         sp_plant:*
                                                                                                                                                                                                                                                                                                                                                                                                     Length
508
553
298
301
299
299
299
332
509
419
419
484
229
1427
1445
                                                                                                                                                                                                                                                                                                                                                                                                       DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2001, 16:09:03 ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gapext 0.5
                                         90
                                      Q27950
Q28206
                                                                                                                    Q9GK86
Q9MYZ9
                                                                             Q14936
                                                                                                                                                             Q9UGN4
                                                                                                                                                                                  Q9UBK4
                                                                                                                                                                                                    095100
                                                                                                                                                                                                                         Q9HD97
                                                                                                                                                                                                                                           Q9UHF4
                                                                                                                                                                                                                                                                                                                     Q9YHW0
Q9YGC8
                                                                                                                                                                                                                                                                                                                                                                                                     Ħ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   summaries
                                                                                                    Q9M0H3
                                                                                                                                                                                                                                                                Q9YHV9
                                                                                                                                                                                                                                                                                  Q9PVK0
                                                                                                                                                                                                                                                                                                                                                                                                                                                               SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Compugen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        4.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Search time 22.7 Seconds (without alignments) 1812.637 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ltd
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           425026
                                                                                                                                                                                                Q9uhf4
Q9hd97
Q95100
                                                                                                                                     Q9ugn4
Q9gk86
                                                                                                                    Q9myz9
                                      Q28206 bos taurus
                                                                                                                                                                              09ubk4
                                                                                                                                                                                                                                                                                                                                                                                                   Description
                                                                                                                                                                                                                                                            Q9pvk0
Q9yhv9
                                                                                                                                                                                                                                                                                                 Q9ygc8
Q63953
                                                                                                    Q9m0h3
                                                                                                                                                                                                                                                                                                                                      Q9yhw0 -gallus
Q9pvj9 gallus
                                                                                                                                                           homo
homo
homo
                                                             Sod
                                                                             homo
                                                                                                                                       ovis aries
                                                                                                                                                                                                                                                        0 gallus gall
9 gallus gall
8 gallus gall
3 mus musculu
0 gallus gall
9 gallus gall
                                                                                                                      sus
xenopus lae rattus norv
                                                                                                arabidopsis
                                                                                                                      scrofa
                                                                                                                                                                                                                   sapien
sapien
                                                           indicus
                                                                                                                                                                                                    sapien
                                                                                                                                                                              sapien
                                                                             sapien
                                                                                                                                                             sapien
```

45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20
83.5	84	84	84	84.5	. 84.5	84.5	85	85	85	85.5	86	86	86	86	87	87.5	87.5	88	91	91	91.5	91.5	92	92.5	92.5
5.1	5.2						5.2																		5.7
220	2297	227	227	1252	752	345	1294	592	227	1647	495	228	227	227	896	1274	227	1527	425	422	1115	987	422	1118	666
œ	ω	œ	œ	11	_	σı	4	4	œ	σı	N	œ	œ	œ	11	w	œ	11	11	4	4	13	4	4	13
Q9XN00	Q9HGK6	Q9G6N2	Q9MET3	Q9EQS9	Q9YC61	P91030	Q9UQP3	095697	Q9G947	Q9VYW1	034660	Q9MLQ6	Q9G390	Q37596	Q64146	Q9UT05	Q9G3S0	Q9ES67	Q9 ЈМ58	075462	Q9HD43	073875	Q9UHH5	Q15426	073876
Q9xn00 stomaphis a	Q9hgk6 candida alb		Q9met3 physeter ca	Q9eqs9 mus musculu	Q9yc61 aeropyrum p		Q9uqp3 homo sapien			Q9vyw1 drosophila	O34660 bacillus su	Q9mlq6 limulus pol		Q37596 phyllostomu	Q64146 rattus norv	Q9ut05 schizosacch	Q9g3s0 chalinolobu	Q9es67 rattus norv	Q9jm58 mus musculu	075462 homo sapien	Q9hd43 homo sapien		Q9uhh5 homo sapien	Q15426 homo sapien	073876 brachydanio

ALIGNMENTS

```
RESULT
Q9YHW0
 밁
                         Ş
                                                   밁
                                                                           Š
                                                                                                                                                                        Query Match
Best Local :
                                                                                                       Matches
                                                                                                                                                                                                                                                                       TISSUE=LIVER;
Reboul J., Gardiner K., Monner
"Comparative genomic analysis
receptor gene cluster";
                                                                                                                                                                      SMART; SM00060; FN3; Receptor.
SEQUENCE 569 AA; (
                                                                                                                                                                                                           Genome Res. 0:0-0(1999).

EMBL; AP082664; AAD13669.1; -.

InterPro; IPR000282; -.

InterPro; IPR001777; -.

Pfam; PF00041; fn3; 1.
                                                                                                                                                                                                                                                                                                                                                                                Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                 01-MAY-1999
01-MAR-2001
                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                       NCBI_TaxID=9031;
                                                                                                                                                                                                                                                                                                                                                                                                          Gallus gallus (Chicken).
                                                                                                                                                                                                                                                                                                                                                                                                                         IFNAR1
                                                                                                                                                                                                                                                                                                                                                                                                                                    INTERFERON ALPHA/BETA RECEPTOR 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           01-MAY-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Q9YHW0
                                                    222
280 DDYSSKWQKVSGCENITSMKCNLSSVIKPTSASYYFRVQAMNEYSKSCLSKDVEVDPPVT 339
                                                                                                       Local Similarity
nes 79; Conserv
                         79 T--SHIWIPSSWCSLTEGPECDVTDDITAT-VPYNLRVRATLGSQTSAWS------
                                                                  21 YALIPCL-LTDEVAILPAPQNLSVLSTNMKHLLMWSPVIAPGETVYYSVEY-QGEYESLY 78 :: | |: | : | | : | | : | | :: | | :: | | :: | |
                                                  FSPIHCIKTTRKVNDLLCPTNVRVFALNMKFYLLWDNHY -- NEHVTYTVQYLTGYLKNLY 279
                                                                                                                                                                      569 AA; 64055 MW; 6A757DDFB891E605 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                               (TrEMBLrel. 10, (TrEMBLrel. 10, (TrEMBLrel. 16,
                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRELIMINARY;
                                                                                                                   12.4%;
                                                                                                                                                                                                                                                                                        Monneron
alysis of
                                                                                                       50;
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Last sequence up
                                                                                                     Score 202; DB 13;
Pred. No. 1.1e-10;
0; Mismatches 127;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Created)
                                                                                                                                                                                                                                                                                          D.,
the
                                                                                                                                                                                                                                                                                        Uze G., Lutfalla G.;
interferon/interleukin-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      569
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     B
                                                                                                                                                                                                                                                                                                                                                                                                                                                              update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                 update)
                                                                                                                               Length 569;
                                                                                                       Indels
                                                                                                       58;
                                                                                                     Gaps
                           125
                                                                                                       14;
```

```
RESULT
Q9YGC8
ID Q9
AC Q9
                                                                                                                                                                  망
                                                                                                                                                                                          Ş
                                                                        밁
                                                                                           δÃ
                                                                                                                     밁
                                                                                                                                           ş
                                                                                                                                                                                                                   밁
                                                                                                                                                                                                                                          ş
                                                                                                                                                                                                                                                                                                                              밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Qγ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT
                                                                                                                                                                                                                                                                             Query Match
Best Local
                                                                                                                                                                                                                                                                   Matches
 Q9YGC8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       09PVJ9;
                                                                                                                                                                                                                                                                                                                                         Receptor.
                                                                                                                                                                                                                                                                                                                                                                                                   receptor gene cluster.";
Genome Res. 9:242-250(1999).
EMBL; AF082667; AAD13679.1; -.
InterPro; IPR000282; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE FROM N.A. MEDLINE=99177346; PubMed=10077530;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gallus gallus (Chicken)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Q9PVJ9
                                                                                                                                                                                                                                                                                                                              SEQUENCE
                                                                                                                                                                                                                                                                                                                                                               SMART; SM00060; FN3;
                                                                                                                                                                                                                                                                                                                                                                                                                                             Reboul J., Gardiner K., Monneron Comparative genomic analysis of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NCBI_TaxID=9031;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Archosauria; Aves;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Eukaryota;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  INTERFERON ALPHA/BETA RECEPTOR 1 (FRAGMENT).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 01-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            01-MAY-2000
                                                                                                                                                                                                                                                                                                                                                                                          InterPro;
                                                                                                172
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           505
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          446
                                                                        386
                                                                                                                     340
                                                                                                                                              126
                                                                                                                                                                     280
                                                                                                                                                                                                                    222
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  231
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         386
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         340
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1-MAY-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 126
                                                                                                                                                                                             79
                                                                                                                                                                                                                                           21
                                                                      NSSDNEEEVKMKETKQTIATVSDLAPSTLYCVKVQAFSEAYNKSSDFSREECIGTAG
                                                                                                                                                                    DDYSSKWQKVSGCENITSMKCNLSSVIKPTSASYYFRVQAMNEYNKSCLSKDVEVDPPVT
                                                                                                                                                                                          T--SHIWIPSSWCSLTEGPECDVTDDITAT-VPYNLRVRATLGSQTSAWS---
                                                                                                                                                                                                                 FSPIHCIKTTRKVNDLLCPTNVRVFALNMKFYLLWDNHY--NEHVTYTVQYLTGYLKNLY
                                                                                                                                                                                                                                       YALIPCL-LTDEVAILPAPQNLSVLSTNMKHLLMWSPVIAPGETVYYSVEY-QGEYESLY 78
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          --FVPTVEEPVEIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 QKLISCRREEVDAC 295
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NSSDNEEEVKMKETKQTIATVSDLAPSTLYCVKVQAFSEAYNKSSDFSREECIGTAGGKH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NEIGPPDVKVDISDVLLH-----IKITPPG----GPGNKIMSDLYD----FSYQILYWK
                                                                                           REPGAEEHVKMVRSGGIPVHLETMEPGAAYCVKAQTFVKAIGXYSAFSQTECVEVQG
                                                                                                                     NEIGPPDVKVDISDVLLH---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LPLII-LATFAGALTVVLIVASLVIFFLYQVYNKIKYMFFPSCQTPLNIEGFGAQLFSSP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              IPLVLALFAFVGFMLILVVVP----LFVWKMGRLLQYSCCPVVVLPDTL-----KITNSP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REPGAEEHVKMVRSGGIPVHLETMEPGAAYCVKAQTFVKAIGXYSAFSQTECV-EVQGEA
                                                                                                                                                                                                                                                                                                                                                                         Pro; IPR001777; -. PF00041; fn3; 1.
                                                                                                                                                                                                                                                                   64;
                                                                                                                                                                                                                                                                             Similarity
                                                                                                                                                                                                                                                                                                                            442
442 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Metazoa;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (TrEMBLrel. 13, Created)
(TrEMBLrel. 13, Last sequence update)
(TrEMBLrel. 16, Last annotation updat
                                                                                                                                                                                                                                                                10.5%;
ilarity 27.0%;
Conservative 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRELIMINARY;
                                                                                                                                           -----ILKHPFNRNSTILTRPGMEIXKXGFHLVIELEDLGPQFEFLVAYWX 171
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    -ILKHPFNRNSTILTRPGMEIXKXGFHLVIELEDLGPQFEFLVAYWX
                                                                                                                                                                                                                                                                                                                            442
49877
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Neognathae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          : 516
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Chordata; Craniata; Vertebrata; Euteleostomi;
Neognathae; Galliformes; Phasianidae; Phasiani
                                                                                                                                                                                                                                                                                                                            MW;
                                                                                                                     ---IKITPPG---
                                                                                                                                                                                                                                                                   29;
                                                                                                                                                                                                                                                                Score 171.5; DB 13
Pred. No. 5.8e-08;
9; Mismatches 99;
            PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRT;
                                                                                                                                                                                                                                                                                                                            839EBE92170609E0 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                the
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Uze
           341
                                                                                                                                                                                                                                                                                                                                                                                                                                                Uze G., Lutfalla G.;
Interferon/Interleukin-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               442
                                                                                                                    -GPGNKIMSDLYD----FSYQILYWK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               B
            ₿
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            update)
                                                                                                                                                                                                                                                                                        13;
                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                                                                                                       Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Phasianinae;
                                                                                                                                                                                                                                                                  45;
                                                                      442
                                                                                             228
                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                  339
                                                                                                                                                                                                                  279
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              281
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       445
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             171
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          504
                                                                                                                                                                                                                                                                9;
```

```
RESULT
10 203953
10 2050
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 2070
10 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity
                                                                                                                                                                                                                     Q63953;
Q63953;
Q63953;
O1-NOV-1996 (TIEMBLTel. 01, Created)
O1-NOV-1996 (TIEMBLTel. 01, Last seg
O1-MAR-2001 (TIEMBLTel. 16, Last and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  receptor gene cluster.";
Genome Res. 0:0-0(1999).
EMBL; AF082667; AAD13678.1;
EMBL; AF082666; AAD13671.1;
HSSP; P13726; 2HFT.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              01-MAY-1999 (TrEMBLrel.
01-MAY-1999 (TrEMBLrel.
01-MAR-2001 (TrEMBLrel.
INTERLEUKIN-10 RECEPTOR
                    SEQUENCE FROM N.A.
MEDILNE=94170381; PubMed-8124717;
Hemmi S., Bohni R., Stark G., Di Marco F.,
"A novel member of the interferon receptor
                                                                                                                                                  Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Receptor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          InterPro; IPR000282; -.
InterPro; IPR001187; -.
InterPro; IPR001777; -.
InterPro; IPR001777; -.
Pfam; PF00041; fn3; 1.
PRINTS; PR00346; TISSUEFACTOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gallus gallus (Chicken).
  functionality
                                                                                                                                                                                               Mus musculus
                                                                                                                                                                                                                   IFNGR2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SMART; SM00060; FN3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NCBI_TaxID=9031;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gallus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Archosauria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Eukaryota;
                                                                                                                            NCBI_TaxID=10090;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Reboul J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Reboul J., Gardiner K., Monneron Comparative genomic analysis of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              171
                                                                                                                                                                                                                                                                                                                                                                                                                                                          224
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    233
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    183
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 117
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           82
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     œ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LVLALFAFVGFML-ILVVVPL---FVWKMGRLLQYSCCPVVVLPDTLKITNSP
                                                                                                                                                                                                                                                                                                                                                                                                                                                     VWIVVTVLLGSMLAVIISVPVCFFAFWYLYRFTKHVFFPSYIFPQHLKEFFSP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      VRSGGIPVHLET----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TRPGMEIXKXGFHLVIELEDLGPQFE-------FLVAYWXREPGAEEHVKM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ALIPCLLTDEVAILPAPQNLSVLSTNMKHLLMWSPVIAPGETVYYSVEYQGEYESLYTSH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GPPSVNVKSESGTLHVDF--TGPAADREHDKWSLKQYYGSWIYRILYWKK--GSNKKV--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ALWGCLLLCVSGIVPKPRNARISSVNFRSVLLWDPPGVRKGNLSYTVQ-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ----IHIDTKHNSEILSQLEPWTIYCIQVQGVIPEWNKTGERSQELCEQTTHNGVTP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              IFPKQNFNNVTTNLNVTECDVS-SLSVYGAYVLRVRTEWEDEHSDWAVVRFK-PMADTVI 116
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      IWIPSSWCSLTEG---PECDVTDDITATVPYNLRVRATLGSQTSAWSILKHPFNRNSTIL 138
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       62;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Metazoa;
a; Aves; l
                                                                                                                              us (Mouse).
Metazoa; Chordata; C
-∵heria; Rodentia; !
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  341
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
  of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AA;
    the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Chordata;
Neognathae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  39062
  murine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         10.2%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ---MEPGAAYCVKAQTFVKAIGXYSAFSQTECVEVQGEAI-P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                10,
10,
16,
2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MW.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       55;
                                                                                                                                                                                                                                    Last sequence update)
Last annotation update)
(INTERFERON GAMMA RECEPTOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Last sequence update)
Last annotation updat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Created)
interferon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score
Pred.
                                                                                                                                              Craniata; Vertebrata;
Sciurognathi; Muridae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Craniata; Vertebrata; Euteleostomi;
; Galliformes; Phasianidae; Phasiani
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                18027239BF8A9C87 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     No. 1.2e-07;
smatches 119;
                                                                                                                                                                                                                                                                                                                                                 332
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 interferon/interleukin-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Uze G.,
  gamma
                                                                                                                                                                                                                                                                                                                                               B
                      Aguet M.; family complements
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      update)
                                                                                                                                                    Muridae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Lutfalla G.
  receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length
                                                                                                                                                                        Euteleostomi;
                                                                                                                                                    Murinae;
  in
                                                                                                                                                                                                                                       BETA SUBUNIT).
  human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Phasianinae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ---- AKS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               341;
                                                                                                                                                                                                                                                                                                                                                                                                                                                          276
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                281
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     57;
                                                                                                                                                    Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   58
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    232
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     12;
```

```
RESULT
Q9PVK0
                                                                                                                                                                                                                                                                                                               QV
                                                                                                                                                                                                                                                                                                                                        밁
                                                                                                                                                                                                                                                                                                                                                             QΥ
                                                                                                                                                                                                                                                                                                                                                                                       뮹
                                                                                                                                                                                                                                                                                                                                                                                                            QΥ
                                                                                                                                                                                                                                                                                                                                                                                                                                     밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                          QΥ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Interpro; IPR000282; -.
Interpro; IPR001777; -.
Pfam; PF00041; fn3; 1.
SMART; SM00060; FN3; 1.
SEQUENCE 332 AA; 3747
                                                                                                                                                         Q9PVK0;
01-MAY-2000 (TrEMBLrel. 13, Created)
01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
01-MAR-2001 (TrEMBLrel. 16, Last annotation update)
INTERFERON ALPHA/BETA RECEPTOR 2.
                                                                                                      Gallus gallus (Chicken).
Gallus gallus (Chicken).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasiani
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  EMBL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MEDLINE-97128072; Pub
Ebensperger C., Rhee
Pestka S., Dembic Z.;
         Reboul J., Gardiner K., Monneron "Comparative genomic analysis of receptor gene cluster.";
Genome Res. 9:242-250(1999).
                                                       SEQUENCE FROM N.A. MEDLINE-99177346; PubMed-10077530;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MGD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         EMBL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           EMBL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                "Genomic organization and promoter analysis of the gene encoding the second chain of the mouse interferon-gamma Scand. J. Immunol. 44:599-606(1996).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          cells.";
Cell 76:803-810(1994).
EMBL;
                                                                                              NCBI_TaxID=9031;
                                                                                                                                                                                                                                Q9PVK0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     EMBL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 EMBL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EMBL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STRAIN-129SV/J
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE FROM
                                                                                                                                                                                                                                                                                                                                                                 167
                                                                                                                                                                                                                                                                                                                                                                                       111
                                                                                                                                                                                                                                                                                          228
                                                                                                                                                                                                                                                                                                                  222
                                                                                                                                                                                                                                                                                                                                         170
                                                                                                                                                                                                                                                                                                                                                                                                               114
                                                                                                                                                                                                                                                                                                                                                                                                                                      59
                                                                                                                                                                                                                                                                                                                                                                                                                                                            67
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    σ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               069599; AAC52938.1;
069594; AAC52938.1;
069595; AAC52938.1;
069596; AAC52938.1;
069596; AAC52938.1;
069597; AAC52938.1;
069598; AAC52938.1;
069598; AAC52938.1;
069598; AAC52938.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MWFFYALIPCLL------TDEVAILPAPQNLSVLSTNMKHLLMWSPVIAPGETVYY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MGI:107654;
                                                                                                                                                                                                                                                                                                                                                                VAYWXREPGAEEHVK-MVRSGGIPVHLETMEPGAAYCVKAQTFV----
                                                                                                                                                                                                                                                                                          SCHETTANASARLQQVILIPLGIFALL
                                                                                                                                                                                                                                                                                                                ECVEVQGEA-----IPLVLALFAFV 241
                                                                                                                                                                                                                                                                                                                                       VHYWEKSETQQEQVEGPFKSNSIV--LGNLKPYRVYCLQTEAQLILKNKKIRPHGLLSNV
                                                                                                                                                                                                                                                                                                                                                                                       RAKRGNLTSKWVGLE-PFQHYENVTVGPPKNISVTPGKGSLVIHFSPPFDVFHGATFQYL
                                                                                                                                                                                                                                                                                                                                                                                                             RATLGSQTSAWSILKHPFNRNSTILTRP--GMEIXKXGFHLVIELE--
                                                                                                                                                                                                                                                                                                                                                                                                                                      PVVYQVEYS-----FIDGSWHRLLE-PNCTDITETKCDLTGGGRLKLFPHPFTVFLRV
                                                                                                                                                                                                                                                                                                                                                                                                                                                   SVEYQGEYESLYTSHIWIPSSWCSLIEGPEC-DVTD---DITA-----TVPYN--LRV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LW-----LPSLLLCGLGAAASSPDSFSQLAAPLNPRLHLYNDEQILTWEP--SPSSNDPR
AF082667;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  l Similarity
72; Conser
                                                                                                                                                                                                                                PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ifngr2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PubMed=8972742;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            37471
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              9.6%;
27.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            S., Muthukumaran
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           JOINED.
JOINED.
JOINED.
JOINED.
JOINED.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   34;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 157; DB
Pred. No. 9.5e
34; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            E2DD53BF934BA087 CRC64;
                             the
                                                                                                                                                                                                                                                                                          254
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             157;
No. 9.
                                  Uze G., Lutfalla G.;
Interferon/Interleukin-10
                                                                                                                                                                                                                                508
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                G.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 11;
.5e-07;
                                                                                                                                                                                                                                A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Lembo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   101;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 .
.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Donnelly
                                                                                                                                                                                                                                                                                                                                                                KAIGXYSAFSQT
                                                                                                                                                                                                                                                                                                                                                                                                     -DL--GPQFEFL
|: | |::|
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             receptor.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ifngr2
                                                                                                                     Phasianinae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   60;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ₽.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                      110
                                                                                                                                                                                                                                                                                                                                                                                                                                                           113
                                                                                                                                                                                                                                                                                                                                        227
                                                                                                                                                                                                                                                                                                                                                                                      169
                                                                                                                                                                                                                                                                                                                                                                                                               166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   58
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          66
                                                                                                                                                                                                                                                                                                                                                                221
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   17;
```

```
RESULT
Q9YHV9
                                                       A LONG CONTRACTOR OF THE CONTRACTOR OF T
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Qy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Qy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Qy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Qy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SQ SQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    밁
Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local
                                                                               InterPro; IPR000282; -.
InterPro; IPR001187; -.
InterPro; IPR002048; -.
InterPro; IPR002048; -.
Pfam; PP01108; Tissue_fac; 1.
PRINTS; PR00346; TISSUEFACTOR.
PROSITE; PS00018; EF_HAND; UNKNO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    InterPro; IPR000342; ...
InterPro; IPR001187; ...
InterPro; IPR002048; ...
Pfam; PF001108; Tissue_fac; 1.
PRINTS; PR00346; TISSUEFACTOR.
PRODOM; PD001580; -; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Receptor.
SEQUENCE
                                                       Receptor.
SEQUENCE
                                                                                                                                                                  receptor gene cluster.";
Genome Res. 0:0-0(1999).
EMBL; AF082665; AAD13670.1;
HSSP; P24055; 1A21.
                                                                                                                                                                                                                                                                                                                                                                                           01-MAY-1999
01-OCT-2000
                                                                                                                                                                                                                                       Reboul J.,
                                                                                                                                                                                                                                                    TISSUE-LIVER;
                                                                                                                                                                                                                                                               SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                            NCBI_TaxID=9031;
                                                                                                                                                                                                                                                                                                                       Archosauria; Aves;
                                                                                                                                                                                                                                                                                                                                      Eukaryota;
                                                                                                                                                                                                                                                                                                                                                  Gallus gallus (Chicken)
                                                                                                                                                                                                                                                                                                                                                                             INTERFERON
                                                                                                                                                                                                                                                                                                                                                                                                                      01-MAY-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                    ; 6AHA6Ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Q9YHV9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PROSITE; PS00018; EF_HAND; UNKNOWN_1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      HSSP; P24055; 1A21.
InterPro; IPR000282;
                                                                                                                                                                                                                     "Comparative genomic analysis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               229
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          178
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  236 VAEKDYYGITIAVA----ICFSIILVVILKCLHLGGYILHKKS---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             71
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      11 FYQLVFVSILCAACYSSLSEKIPREP-PDNLQMTSNNFQHILSWRAHSDPTVPTYYRV--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 20 FYALI-----PCL--LTDEVAILPAPQNLSVLSTNMKHLLMWSPVIAPGETVYYSVEY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  EA-----IPLVLALFAFVGFMLILVVVPLFVWKMGRLLQYSCCPVVVLPDTLKIT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RTVG-EEHKRSPEKVTEEPFSIVIEELYPNRNYCVSVMV-TASLNKHSIPSAWKCITTDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REPGAEEHVK----MVRSGGIPVHLETMEPGAAYCVKAQTFVKAIGXYSAFSQTECVEVQG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             QGEYESLYTSHI-WIPSSWCSLTEGPECDVTDDI-TATVPYNLRVRATLGSQTSAWSIL-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FSPLSETFLGPPEFNLSSCVHCINITIKLPPTHLRKNG--KLLSLFDIYNKVNYEIT--L
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   -----LYSSHSNWKIAKQCSRIVQPFCNLTDDFQVVSDEYSAFVQSFVGTEVFNSSLLY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            73;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Similarity
                                                                                                                                                                                                                                                                                                                                                                           0 (TrEMBLrel. 15, Last annotation ALPHA/BETA RECEPTOR 2.
                                                                                                                                                                                                                                       Gardiner K.,
                                                                                                                                                                                                                                                                                                                                     Metazoa;
                                                                                                                                                                                                                                                                                                                                                                                        9 (TrEMBLrel. 10, 9) (TrEMBLrel. 10, 0) (TrEMBLrel. 15,
                                                       508
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               508 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     --KHPFNRNSTI-----LTRPGMEIXKXGFHLVIELEDLGPQFEFLVAYWX 171
                                                       ΑA;
                                                                                                                                                                                                                                                                                                                     Neognathae;
                                                                                                                                                                                                                                                                                                                     Chordata; Craniata; Vertebrata; Euteleostomi;
Neognathae; Galliformes; Phasianidae; Phasiani
                                                       57049 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               57175 MW;
 9.3%;
24.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         9.48;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             . . .
                                                                                                                                                                                                                         Monneron
alysis of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            46;
                                                                                  UNKNOWN_1.
                                                                                                                                                                                                                                                                                                                                                                                                        Last
                                                                                                                                                                                                                                                                                                                                                                                                                      Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 153.5; DB 1
Pred. No. 3.4e-06;
 Score 150.5; DB 1 Pred. No. 6.6e-06;
                                                       5CE6DFED970DFB90 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4C02D29D243E8C05 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
                                                                                                                                                                                                                         D.,
the
                                                                                                                                                                                                                                                                                                                                                                                                        sequence
                                                                                                                                                                                                                         Uze G., Lutfalla G.;
interferon/interleukin-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                 ξ
              DB 13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            116;
                                                                                                                                                                                                                                                                                                                        Phasianidae; Phasianinae;
                                                                                                                                                                                                                                                                                                                                                                                           update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
              Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LPDTLVFT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           61;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             278
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             127
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        67
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            16;
```

A

an independently localized to hum

human

expressed chromosome

Euteleostomi;

databases

```
δÃ
                                                      밁
                                                                            Ş
                                                                                                        밁
                                                                                                                               Ş
                                                                                                                                                           밁
                                                                                                                                                                                 δÃ
                                                                                                                                                                                                                                                                                                                                         RESULT
Q9UHF4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    몽
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ş
      밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      멍
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Q
                                                                                                                                                                                                                        Query Match
Best Local S
                                                                                                                                                                                                              Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           09UHF4:
01-MAY-2000 (TrEMBLrel. 13, Created)
01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
01-OCT-2000 (TrEMBLrel. 15, Last annotation update)
CLASS II CYTOKINE RECEPTOR ZCYTOR7.
                                                                                                                                                                                                                                                                           Receptor.
SEQUENCE
                                                                                                                                                                                                                                                                                                               Presnell S., Gilbert T., Whitmore T., Foster I Martinez T., Hoffman R., O'Hara P.; Submitted (SEP-1999) to the EMBL/GenBank/DDBJ EMBL; AF184971; AAF01320.1; -. HSSP; P13726; 1TFH.
                                                                                                                                                                                                                                                                                                                                                                                                       "Homo sapiens cytokine receptor homolog. Submitted (OCT-1999) to the EMBL/GenBanl
                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE FROM N.A.
Lok S., Kho C., Je
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens (Human)
Eukaryota; Metazoa;
                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Eukaryota; Metazoa; Chordata; Mammalia; Eutheria; Primates;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Q9UHF4
                                                                                                                                                                                                                                                                                                   InterPro;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NCBI_TaxID=9606;
      198
                              176
                                                        141
                                                                                 135
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        228
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  178
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          172
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              236 VAEKDYYGITIAGAICFSIILVVILKCLHLGGYILHKKS-----LPDTLVFT
                                                                                                                                                                                                                                                                                                                                                                                                                                 'Hara P.;
                                                                                                         81
                                                                                                                                 83
                                                                                                                                                           30
                                                                                                                                                                                24 IPCLLTDEVAILPAPQNLSVLSTNMKHLLMWSPVIA-PGETVYYSVEYQGEYESLYTSHI 82
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     89
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             71
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                20
        VTNHTLV
                                                                                                       WLNKSECRNINRTYCDLSAETSDYEHQYYAKVKAIWGTKCSKWAESGRFYPFLETQIGPP
                                                                                                                               WIPSSWCSLTEGPECDVTDDIT-ATVPYNLRVRATLGSQTSAW--SILKHPFNRN-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FSPLSETFLGPPEFNLSSCVHCINITIKLPPTHLRKNG--KLLSLFDIYNKVNYEIT--L
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      H------PFNRNSTI-----LTRPGMEIXKXGFHLVIELEDLGPQFEFLVAYWX 171
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               -----LYSSHSNWKIAKQCSRIVQPFCNLTDDFQVVSDEYSAFVQSFVGTEVFNSSLLH 121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FYALI-----PCL--LTDEVAILPAPQNLSVLSTNMKHLLMWSPVIAPGETVYYSVEY 70
                            AEEHVKMVRSGGIPVHLETMEPGAAYCVKAQTFVKAIGXYSAFSQTECVEVQGE-----
                                                    EVALTTDEKSISVVLTAP-EKWKRNPEDLPVSMQQIYSNLKYNVSVLNTKSNRTWSQ--C
                                                                                                                                                        VPCVSGG-----LPKPANITFLSINMKNVLQWTPPEGLQGVKVTYTVQY-----FIYGQKK 80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            -GEAIPLVLALFAFVGFMLILVVVPLFVWKMGRLLQYSCCPVVVLPDTLKIT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RTVG-EEHKRSPEKVTEEPFSIVIEELYPNRNYCVSVMV-TASLNKHSIPSAWKCITTDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REPGAEEHVK----MVRSGGIPVHLETMEPGAAYCVKAQTFVKAIGXYSAFSQTECVEVQ-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        QGEYESLYTSHI-WIPSSWCSLTEGPECDVTDDI-TATVPYNLRVRATLGSQTSAWSILK 128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FYQLVFVSILCAACYSSLSEKIPREP-PDNLQMTSNNFQHILSWRAHSDPTVPTYYRV--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         71;
                                                                                                                                                                                                                        Similarity
                                                                                                                                                                                                                                                                                                   IPR000282;
                                                                                                                                                                                                                                                                          553 AA;
                                                                                                                                                                                                           8.5%;
ilarity 21.3%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                          Jelmberg A.,
                                                                             STILTRPGMEIXKXGFHLVIELEDLGPQFEFLVAY---
                                                                                                                                                                                                                                                                          62533 MW;
  LTWLEPNTLYCVHVESFVPGPPRRAQPSEKQCARTLKDQSSEFK
                                                                                                                                                                                                            43;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         46;
                                                                                                                                                                                                                                                                                                                                                                                                       EMBL/GenBank/DDBJ
                                                                                                                                                                                                          Score 138; DB 4;
Pred. No. 0.00011
3; Mismatches 9
                                                                                                                                                                                                                                                                                                                                                                                                                                          Adams R.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Craniata; Vertebrata; Euteleostomi; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                          7C23C8543B114659 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               553
                                                                                                                                                                                                                                                                                                                                                                 Foster D.,
                                                                                                                                                                                                                                                                                                                                                                                                                                             Whitmore
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        122;
                                                                                                                                                                                                           98;
                                                                                                                                                                                                                                                                                                                                                                                                       databases
                                                                                                                                                                                                                                                                                                                                         databases
                                                                                                                                                                                                                                                                                                                                                                                                                                          Ŧ.,
                                                                                                                                                                                                                                  Length
                                                                                                                                                                                                                                                                                                                                                                 Hart C.,
                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                             Farrah
                                                                                                                                                                                                                                                                                                                                                                  Lehner
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      278
                                                                                                                                                                                                                                                                                                                                                                                                                                            :
                                                                             WXREPG 175
                                                                                                                                                                                                           62;
                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                       140
                                                    197
                                                                                                                               134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     67
                             229
                                                                                                                                                                                                           11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       15;
                                                                                                                                                                                 RESULT
095100
                                                                                                                                                                                                                                                                                                                                                             δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT
Q9HD97
    RRA OCC OCT DI
                                                                                                                                                                                                                                                          δÃ
                                                                                                                                                                                                                                                                                      밁
                                                                                                                                                                                                                                                                                                             δÃ
                                                                                                                                                                                                                                                                                                                                      DЪ
                                                                                                                                                                                                                                                                                                                                                                                          밁
                                                                                                                                                                                                                                                                                                                                                                                                               Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Q
                                                                                                                                                                                                                                   밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local S
                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  EMBL; AF176991; AAF89957.1; J
EMBL; AF176985; AAF89957.1; J
EMBL; AF176986; AAF89957.1; J
EMBL; AF176987; AAF89957.1; J
EMBL; AF176988; AAF89957.1; J
EMBL; AF176989; AAF89957.1; J
EMBL; AF176989; AAF89957.1; J
                                                                                                                01-MAY-1999
01-MAY-1999
01-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Q9HD97;
01-MAR-2001
01-MAR-2001
                                                                                                                                                        095100;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens (Human).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
SEQUENCE FROM N.A. Green B.J., Clark G.J., "The CMRF-35 monoclonal
                                                              Homo sapiens (Human).
Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
                                                                                                       CMRF-35-H9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Submitted (AUG-1999) to the EMBL/GenBank/DDBJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               01-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          member of 17.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Clark G.J., Green B.J., Hart D.N.J.;
"The CMRF35H gene structure predicts for member of an ITIM/ITAM pair of molecules
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CMRF35H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CMRF35H
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Q9HD97
                                                  NCBI_TaxID=9606;
                                                                                                                                                                                                                                                           213
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          230
                                                                                                                                                                                                                                   153
                                                                                                                                                                                                                                                                                                              161
                                                                                                                                                                                                                                                                                                                                                               101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 249
                                                                                                                                                                                                                                                                                      99
                                                                                                                                                                                                                                                                                                                                       58
                                                                                                                                                                                                                                                                                                                                                                                                                 51
                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                               LLMWSP-----VIAPGETVYYSVEYQGEYESLYTSHIWIPSSWCSLTEGPECDVT 100
                                                                                                                                                                                                                                  TTLFAVGATHSASIQEETEEVVNSQLPLLLSLLALL - - LLLLVGASLLAWRM
                                                                                                                                                                                                                                                           -----GXYSAFSQTECVEVQGEAIPLVLALFAFVGFMLILVVVPLFVWKM
                                                                                                                                                                                                                                                                                    TYWCGVDTPWLRDFHDPVVEVEVSVFPAS----TSMTPASITAAKTSTITTAFPPVSS
                                                                                                                                                                                                                                                                                                             PQFEFLVAYWXR----EPGAEEHVKMVRSGGIPVHLETMEPGAAYCVKAQTFVKAI-----
                                                                                                                                                                                                                                                                                                                                         DKIVET ----
                                                                                                                                                                                                                                                                                                                                                             DDITATVPYNLRVRATLGSQTSAWSILKHPFNRNSTILTRPGMEIXKXGFHLVIELEDLG
                                                                                                                                                                                                                                                                                                                                                                                       LLLWVPGCFALSKCRTVAGPWGSLSVQCPYQKEHRTL-----NKYWC---RPPQIFLC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AKIIFWYVLPISITVFLF
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Similarity
                                                                                                                TrEMBLrel.
(TrEMBLrel.
(TrEMBLrel.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         298
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (TrEMBLrel. 16, (TrEMBLrel. 16, (TrEMBLrel. 16,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        -AIPLVLALFAF
                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRELIMINARY;
                                                                                                                                                                    PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ä,
                                                                                                                                                                                                                                                                                                                                     ---KGSAGKRNGRVSIRDSPANLSFTVTLENLTE-----EDAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        33230 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                     7.1%;
22.8%;
Hart D.N.J.;
antibody recognised
                                                                                                                16,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                266
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        240
                                                                                                                                                                                                                                                                                                                                                                                                                                         27;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    JOINED
JOINED
JOINED
JOINED
JOINED
                                                                                                               Created)
Last sequence update)
Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Last sequence update)
Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 115; DB
Pred. No. 0.00
27; Mismatches
                                                             Craniata; V
Catarrhini;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRT;
                                                                                                                                                                    PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DB58C9104A33B4C3 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                    115; DB 4;
No. 0.0076;
                                                                                                                                                                    301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 298
```

90;

Gaps

9

98 160 57

152 212

Length 298; Indels

Vertebrata; i; Hominidae;

Euteleostomi;

ש

second

leucocyte

₽

1 202 1 257

```
RESULT
ID UBK4
AC 09
AC 09
DT 01
DT 01
DT 01
DT 01
RFR 11
RFR 11
RFR 11
Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                망
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SORDARDCCRA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local S
Matches 54
                                                                                      Cantoni C., Biassoni I
"IRC1 isoforms.";
Submitted (AUG-1998) 1
-1- SIMILARITY: TO IM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          InterPro; IPR003599; Pfam; PF00047; ig; 1.
SMART; SM00409; IG; 1.
SEQUENCE 301 AA; 3:
                                                                                                                                                                                                                                                                                                                                                               01-MAY-2000
01-MAY-2000
01-MAR-2001
                                                                 EMBL;
                                                                                                                                                                    Cantoni C., Biassoni R., Molecular cloning of a Submitted (SEP-1999) to
                                                                                                                                                                                                                                                                                               IRCLA.
IRCLA.
Homo sapiens (Human).
Homo sapiens (Human).
Horota; Metazoa; Chordata;
Horia; Primates;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             InterPro;
InterPro;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      membrane molecule with a domain similar to the poly Ig receptor."; Submitted (AUG-1997) to the EMBL/GenBank/DDBJ databases.
-i- SIMILARITY: TO IMMUNOGLOBULIN AND MAJOR HISTOCOMPATIBILITY COMPLEX
 SEQUENCE
           Pfam; PF00047; ig; 1.
SMART; SM00409; IG; 1
                               EMBL; AJ224864; CAB55347.1;
EMBL; AJ010101; CAB52291.1;
InterPro; IPR003006; -.
InterPro; IPR003599; -.
                                                                                                                                     TISSUE-LYMPHOID;
                                                                                                                                                  SEQUENCE
                                                                                                                                                                                                       TISSUE-LYMPHOID;
                                                                                                                                                                                                                 SEQUENCE FROM N.A.
                                                                                                                                                                                                                                        Submitted (FEB-1998)
                                                                                                                                                                                                                                                  O'Connor C.D.;
                                                                                                                                                                                                                                                             TISSUE-LYMPHOID;
                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                              NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                   Q9UBK4;
                                                                                                                                                                                                                                                                                                                                                                                                              09UBK4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       EMBL; AF020314; AAD01646.1; InterPro; IPR003006; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           213
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                103
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       165
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  105
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              51 LLMWSP----VIAPGETV----YYSVEYQGEYESLYTSHIWIPSSWCSLTEGPECDVTDDIT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DOMAIN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AVGATHSASIQEETEEVVNSQLPLLLSLLALL--LLLLVGASLLAWRM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GVDTPWLRDFHDPVVEVEVSVFPAS-----TSMTPASITAAKTSTITTAFPPVSSTTLF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FLVAYWXR---EPGAEEHVKMVRSGGIPVHLETMEPGAAYCVKAQTFVKAI-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ATVPYNLRVRATLGSQTSAWSILKHPFNRNSTILTRPGMEIXKXGFHLVIELEDLGPQFE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ---GXYSAFSQTECVEVQGEAIPLVLALFAFVGFMLILVVVPLFVWKM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LLLWVPGCFALSKCRTVAGPWGSLSVQCPYEK---EHRTLNKYWC---RPPQIFLCDKIV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Similarity
                                                                                                                                               FROM N.A.
                                                                                                                                                                                                                                                                                                                                                               (TrEMBLrel. 13, (TrEMBLrel. 13, (TrEMBLrel. 16,
  299
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                             PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ·KGSAGKRNGRVSIRDSPANLSFTVTLENLTE-----
 ₽,
                                                                                        TO IMMUNOGLOBULIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1.
33658
 33201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            .' .'
                                                                                                    ៥
                                                                                                                          ₽
::
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               6.9%;
23.7%;
                                                                                                                                                                                                                                       ţ
                                                                                                    the
                                                                                                                                                                      the
                                                                                                                                                                                                                                        the
                                                                                                                                                                                 novel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            , WM
 ₹.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     28;
                                                                                                                                                                                                                                                                                                                                                               Created)
Last sequence up
                                                                                        EMBL/GenBank/DDBJ databases.
DBULIN AND MAJOR HISTOCOMPATIBILITY COMPLEX
                                                                                                                                                                EMBL/GenBank/DDBJ databa
                                                                                                                                                                                                                                        EMBL/GenBank/DDBJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score
Pred.
                                                                                                                                                                                                                                                                                                          Craniata; Vo
Catarrhini;
                                                                                                                                                                                                                                                                                                                                                                                                             PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            632059938BA48CF2
 978461DA87E86269 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               113;
No. 0.
                                                                                                                                                                                                                                                                                                                                                                                                              299
                                                                                                                                                                                                                                                                                                                    Vertebrata; Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DB 4
                                                                                                                                                                                                                                                                                                                                                                                                             ₿
                                                                                                                                                                                                                                                                                                                                                               on update)
                                                                                                                                                                                                                                                                                                          Hominidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          4:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     92;
                                                                                                                                                                      databases
                                                                                                                                                                                                                                        databases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                           Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          257
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             EDAGTYWC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   54;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       212
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             102
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   164
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              104
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     10;
```

```
RESULT 11
Q9UGN4
                      õ
                                               멅
                                                                   Ş
                                                                                           밁
                                                                                                                 Š
                                                                                                                                           밁
 밁
                                                                                                                                                             δ
                                                                                                                                                                                                                                                   δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local S
Matches 55
                                                                                                                                                                                       Query Ma
Best Loc
Matches
                                                                                                                                                                                                                                                  Receptor.
SEQUENCE
                                                                                                                                                                                                                                                                                                                                       Cantoni C., Biassoni R.,
Cantoni C., Biassoni R.,
"IRp60 a novel NK inhibitory receptor.";
Submitted (APR-1999) to the EMBL/GenBank/DDBJ databases.
Submitted (APR-1999) to TAMMININGLOBULIN AND MAJOR HISTOCOMPATIBILITY
                                                                                                                                                                                                                                                                                                                      EMBL;
                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE FROM N.A. TISSUE=LYMPHOID;
                                                                                                                                                                                                                                                                                                                                                                                                                                          Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       01-MAY-2000 (TrEMBLrel.
01-MAY-2000 (TrEMBLrel.
01-MAR-2001 (TrEMBLrel.
NK INHIBITORY RECEPTOR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Q9UGN4
                                                                                                                                                                                                                                                                          SMART;
                                                                                                                                                                                                                                                                                              InterPro; IPR003006; InterPro; IPR003599;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Q9UGN4;
                                                                                                                                                                                                                                                                                      Piam;
                                                                                                                                                                                                                                                                                                                                                                                                                              NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens (Human).
 147
                        211
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   213
                                                                                                                    101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              101
                                                                      161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 161
                                                                                            59
                                                                                                                                                                  51 LLMWSP-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        59
                                                                                                                                                                                                   Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         51 LLMWSP-----VIAPGETVYYSVEYQGEYESLYTSHIWIPSSWCSLTEGPECDVT
                                                                                                                                           8
                                                                                                                                                                                                              Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      œ
                                                                                                                                                                                                                                                                                                                                   DOMAIN
                                                                                                           DDITATVPYNLRVRATLGSQTSAWSILKHPFNRNSTILTRPGMEIXKXGFHLVIELEDLG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DDITATVPYNLRVRATLGSQTSAWSILKHPFNRNSTILTRPGMEIXKXGFHLVIELEDLG
AFPPVSSTTLFAVGATHSASIQEETEEVVNSQLPLLLSLLALL - - LLLLVGASLLAWRM
                                                                                            DKIVET
                                                                                                                                           LLLWVPGCFALSKCRTVAGP---VGGSLSVQCPYEK---EHRTLNKYWC--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TTLFAVGATHSASIQEETEEVVNSQLPLLLSLLALL - - LLLLVGASLLAWRM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYWCGVDTPWLRDFHDPVVEVEVSVFPAS-----TSMTPASITAAKTSTITTAFPPVSS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PQFEFLVAYWXR----EPGAEEHVKMVRSGGIPVHLETMEPGAAYCVKAQTFVKAI-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DKIVET-----KGSAGKRNGRVSIRDSPANLSFTVTLENLTE------EDAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LLLWVPGCFALSKCRTVAGP---
                                                                    PQFEFLVAYW-----XREPGAEEHVKMVRSGGIPVHLETMEPGAAYCVKAQTFVK
                                                                                                                                                                                                                                                                                     PF00047;
                                                                                                                                                                                                                                                                                                                       AJ238323; CAB66145.
                                                                                                                                                                                       ch 6.7%;
1 Similarity 23.0%;
55; Conservative 2
                                                                                                                                                                                                                                                                         SM00409;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Similarity
                                                                                                                                                                                                                                                   299
                                                                                           -----KGSAGKRNGRVSIRDSPANLSFTVTLENLTE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 -GXYSAFSQTECVEVQGEAIPLVLALFAFVGFMLILVVVPLFVWKM
                                             TYWCGVDTPWLQDFHDPVVEVEVSVFPAS ----TSMTPASITAAKTSTITT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRELIMINARY;
                                                                                                                                                                                                                                                                        ig; 1.
; iG; 1.
                                                                                                                                                                                                                                                  AA;
                      -GXYSAFSQTECVEVQGEAIPLVLALFAFVGFMLILVVVPLFVWKM
                                                                                                                                                                 --VIAPGETVYYSVEYQGEYESLYTSHIWIPSSWCSLTEGPECDVT
                                                                                                                                                                                                                                                  33172 MW;
                                                                                                                                                                                                                                                                                               6.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    13,
13,
                                                                                                                                                                                                                                                                                                                       ŗ
                                                                                                                                                                                       ; Score 108.5; DB; Pred. No. 0.031; 23; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   25;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Last
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    -VGGSLSVQCPYEK---EHRTLNKYWC---RPPQIFLC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Last
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 110.5; D
Pred. No. 0.02;
                                                                                                                                                                                                                                                                                                                                                                                                                                          Craniata; Vertebrata; Catarrhini; Hominidae
                                                                                                                                                                                                                                                3999B1D8563B63BB CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mismatches, 91;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    sequence update) annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   299
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   B
                                                                                                                                                                                                                                                                                                                                                                                                                                           Hominidae;
                                                                                                                                                                                                              DB 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BB
                                                                                                                                                                                         6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         4.
                                                                                                                                                                                         Indels
                                                                                                                                                                                                              Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo.
                                                                                                                                                                                                                 299;
                                                                                                                                           RPPQIFLC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           299;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   257
                                                                                                                                                                                         75;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   61;
                                                                                            -EDAG
                                                                                                                                                                                                                                                                                                                                              COMPLEX
                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
 203
                        257
                                                                                                                                                                  100
                                                                                            99
                                                                                                                    160
                                                                                                                                           58
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    58
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           153
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 212
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       99
                                                                                                                                                                                         11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    10;
```

12

```
RESULT
Q9MYZ9
ID Q9
AC Q9
DT 01
DT 01
DT 01
 В
                                                                                                                                                                                                                                                                                                                                                                                                  Ş
                                                                                                                                                                                                                                                                                                                                                                                                                           밁
                                                                                                                                                                                                                                                                                                                                                                                                                                              Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local S
Matches 34
                                                                                                                                                                                                                                                                          Q9MYZ9;
01-OCT-2000
01-OCT-2000
01-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Q9GK86;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Receptor.
SEQUENCE
                                                                          Embryonic and Fetal Liver.";
Domest. Anim. Endocrinol. 0:0-0(2000).
EMBL; AF274305; AAF77065.1;
InterPro; IPR000572;
InterPro; IPR001777;
InterPro; IPR002996;
InterPro; IPR002996;
                                                                                                                                                                                                                           ERYTHROPOIETIN RECEPTOR. Sus scrofa (Pig). Sus scrofa (Pig). Eukaryota; Metazoa; Chor Ammania; Eutheria; Ceta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ovis aries (Sheep).
Eukaryota; Metazoa; Chordata; Craniata;
Mammalia; Eutheria; Cetartiodactyla; Run
Bovidae; Caprinae; Ovis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       01-MAR-2001 (TrEMBLrel. 16, Created)
01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
01-MAR-2001 (TrEMBLrel. 16, Last annotation updat
TYPE I INTERFERON RECEPTOR 1E.
                              InterPro; IPR003528; -.
Pfam; PF00041; fn3; 1.
PROSITE; PS01352; HEMATOPO_REC_L_F1;
PROSITE; PS00559; MOLYBDOPTERIN_EUK;
                                                                                                                                                    Pearson P.L., Smith T.P.L., Su
Christenson R.K., Vallet J.L.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Han C., Roberts M.;
"Antiviral activity of interferon receptors.
Submitted (AUG-2000) to the EMBL/GenBank/DDB
                                                                                                                                                                                                                                                                                                                        Q9MYZ9
                       SMART;
                                                                                                                                               *Porcine Erythropoietin Receptor: Molecular
                                                                                                                                                                                 TISSUE-LIVER;
                                                                                                                                                                                             SEQUENCE FROM N.A.
                                                                                                                                                                                                                  NCBI_TaxID=9823;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NCBI_TaxID=9940;
                                                                                                                                                                                                                                                                                                                                                                               325
                                                                                                                                                                                                                                                                                                                                                                                                    132 N
                                                                                                                                                                                                                                                                                                                                                                                                                           268
                                                                                                                                                                                                                                                                                                                                                                                                                                                 81
                                                                                                                                                                                                                                                                                                                                              13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          21 YALIPCLLTDEVAILPAPQNLSVLSTNMKHLLMWSPVIAPGETVYYSVEYQGEYESLYTS
                                                                                                                                                                                                                                                                                                                                                                                                                                      HI-----W--IPSSWCSLTEGPECDVTDDITATVPYNLRVRATLGSQTSAWSILKHPF
                                                                                                                                                                                                                                                                                                                                                                               z
                                                                                                                                                                                                                                                                                                                                                                                                                          KIPGKHSNKWKQIPN--CENVTTTHCVFPRDIFSMGIYYVRVRASNGNGTSFWSEEKE-F
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    YSPVYCINTTERHKVPSPENVQINVDNQAYVLKW------DYPYESTTFQAQWLRAFLK 267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AF296666; AAG42376.1;
                                                                                                                                                                                                                                                                                                                                                                               325
                     SM00060;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         332 AA;
 509
                                                                                                                                                                                                                                                                          (TrEMBLrel.
                                                                                                                                                                                                                                                                                                                        PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRELIMINARY;
₹,
                      FN3;
                                                                                                                                                                                                                           Chordata; Craniata; Vertebrata; Cetartiodactyla; Suina; Suidae;
 55183
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           6.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         38095 MW;
                                                                                                                                                                                                                                                                          15,
16,
MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  20;
                                                                                                                                                                                                                                                                          Last sequence update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         EMBL/GenBank/DDBJ
                                                                                                                                                                     Sonstegard
                                                                                                                                                                                                                                                                                                 Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 105.5;
Pred. No. 0.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2CE7B93EC44B0E09
35B565D07C6BCD8A CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mismatches
                               UNKNOWN_1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      la; Vertebrata;
Ruminantia; Pe
                                                                                                                                                                                                                                                                                                                        509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 332
                                                                                                                                                                     T.S.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           .068;
                                                                                                                                                                                                                                                                                                                      A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Å
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB
                                                                                                                                               Cloning
                                                                                                                                                                                                                                                                          update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   update)
                                                                                                                                                                     Klemcke H.G.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 48;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          databases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Pecora;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length
                                                                                                                                                                                                                               SuS
                                                                                                                                                 and Expression
                                                                                                                                                                                                                                        Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Bovoidea;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                               131
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                5
```

```
RESULT
Q9M0H3
                       Qγ
                                                     밁
                                                                              QΥ
                                                                                                             밁
                                                                                                                                      Ş
                                                                                                                                                                      밁
                                                                                                                                                                                             Ş
                                                                                                                                                                                                                                                                                                  밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Qy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Qy
밁
                                                                                                                                                                                                                                         Best
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local
                                                                                                                                                                                                                            Matches
                                                                                                                                                                                                                                                     Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Q9MOH3 PRELIMINARY; PRT; 419 Am.
Q9MOH3; PCT-2000 (TEMBLrel. 15, Created)
O1-OCT-2000 (TEMBLrel. 15, Last sequence update)
O1-OCT-2000 (TEMBLrel. 15, Last annotation update)
HYPOTHETICAL 47.3 KDA PROTEIN.
                                                                                                                                                                                                                                                                                             EU Arabidopsis sequencing project;
Submitted (MAR-2000) to the EMBL/G
EMBL; AL161573; CAB81446.1; -.
Hypothetical protein.
SEQUENCE 419 AA; 47250 MW; DEE
                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A.
Lennard N., Quail M., Harris B., Rajandream M.A., Barre
Mewes H.W., Lemcke K., Mayer K.F.X.;
Submitted (MAR-2000) to the EMBL/GenBank/DDBJ databases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Arabidopsis thaliana (Mouse-ear cress).
Eukaryota; Viridiplantae; Embryophyta; Tracheophyta; Spermatophyta;
Magnoliophyta; eudicotyledons; core eudicots; Rosidae; eurosids II;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AT4G28580
                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Brassicales;
                                                                                 145
                                                                                                                                                                      211
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             250
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       231
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   191
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               186
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Local
343
                          205
                                                       297
                                                                                                             269
                                                                                                                                         85
                                                                                                                                                                                             28 LTDEVAILPAPONLS---VLSTNMKHLLMWSPVIAPGETVYYSVEYQGEYESLYTSHIWI
                                                                                                                                                                                                                                         Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                68
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            84
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               31 EVAILPA--PQNLSVLSTNMKHLL-MW----SPVIAPGETVYYSVEYQGEYESLYTSHIW 83
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DPLILTLSLILVLILLLLAV-LALLSHRRTLKQKIWPGIPSPE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     KAALLAARGPEELLCFTERLEDLVCFWEEAGSAGVGPED---YSFSYQLEGEP-----W
                                                                                                                                                                   ILDELTKKVSNENLKDLRSLKTSLTHLL--ARVQKVRDEIEHFLDDKEDMEDLYLTRKWI 268
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GGIPVHLETMEPGAAYCVKAQ-----TF-VKAI-----GXYSAFSQTECVEVQGEA 230
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NEVVLLDPPAGL-----LARRAEESG----HVVLRWLPPPGAPMASLIRYEVNISTENA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               KP---CHLHQGPTARGSVRFWCSLPTADTSSFVPLELRV----TEVSSGAPRYHRIIHI 140
             AQT-----FVKAIGXYSAFSQTECVEVQGEAIPLVL----ALFAFVGFMLILVVV
                                                                                                                            PSSWCSLTEGPECDVTDDITATVPYNLRVRATLGSQTSAWSILKHPFNRNSTILTRPGME 144
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          IPLVLALFAFVGFMLILVVVPLFVWKMGRLLQYSCCPVVVLPD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AGGVQRVEILD-GRTECVLSNLRGGTRYTFMVRARMAEPSFGGFWSAWSEPASLLTASDL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NSTILTRPGMEIXKXGFHLVIELEDLGPQFEFLVAYWXREPGA-----EEHVKMVRS 185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         IPSSWCSLTEGPE------CDV-TDDITATVPYNLRVRATLGSQTSAWSILKHP-FNR 133
LQNSRRNGLIHLMMLVNIGNYAITAGTVVVNLFGMNIPIGLYSTPDIFGYVVWAVVALCI
                                                                                 1XKXGFHLV1ELEDLGPQFEFLVAYWXREPGAEEHVKMVRSGG1PVHLETMEPGAAYCVK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               68;
                                                                                                                                                                                                                                         Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Similarity
                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Brassicaceae; Arabidopsis
                                                                                                                                                                                                                                       6.2%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           6.2%;
                                                                                                             ----QNQQTEAASNSIVSQPNLQRHTSNRIST-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           44;
                                                                                                                                                                                                                            45;
                                                                                                                                                                                                                                                                                                                                        EMBL/GenBank/DDBJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 101.5;
Pred. No. 0.
                                                                                                                                                                                                                                       Score 100.5;
Pred. No. 0.:
                                                                                                                                                                                                                                                                                                DEB4003B682FBECB CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mismatches
                                                                                                                                                                                                                            Mismatches
                                                                                                                                                                                                                                      .27;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           . 28;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DΒ
                                                                                                                                                                                                                                                      DB 10;
                                                                                                                                                                                                                            88;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        6
                                                                                                                                                                                                                                                                                                                                         databases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             291
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       273
                                                                                                                                                                                                                                                                                                                                                                                                                         Barrell
                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length
                                                                                                                                                                                                                                                      Length
                                                                                                                                                                                                                                                      419;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; 69
                                                                                                                                                                                                                          65;
                                                       AYVKI
                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  249
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        88
 402
                                                     342
                                                                                 204
                                                                                                                                                                                                84
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         190
                          250
                                                                                                             296
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            18;
                                                                                                                                                                                                                          8
```

В ş

403 VLFIVTVG 410 251 PLFVWKMG

258

```
RESULT
Q14936
 밁
                           Ş
                                                          밁
                                                                                      Ş
                                                                                                                     밁
                                                                                                                                              δÃ
                                                                                                                                                                               밁
                                                                                                                                                                                                           Š
                                                                                                                                                                                                                                          밁
                                                                                                                                                                                                                                                                    8
                                                                                                                                                                                                                                                                                                                                                                               RRR OCCOSEDED DE CO
                                                                                                                                                                                                                                                                                                   Duery Match
Best Local S
Matches 59
                                                                                                                                                                                                                                                                                                                                                                                                                 Submitted (DEC-12...)
EMBL; U19247; AAC52064.1; JOINED.
EMBL; U19241; AAC52064.1; JOINED.
EMBL; U19242; AAC52064.1; JOINED.
EMBL; U19243; AAC52064.1; JOINED.
3 EMBL; U19244; AAC52064.1; JOINED.
6 EMBL; U19245; AAC52064.1; JOINED.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           01-NOV-1996 (TrEMBLrel. 01, Created)
01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
01-OCT-2000 (TrEMBLrel. 15, Last annotation update)
INTERPERON-GAMMA RECEPTOR ALPHA CHAIN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Dembic Z.;
"The gene for the ligand binding chain of the human interferon gamma receptor.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PARTIAL SEQUENCE FROM N.A.

MEDLINE=97246734; PubMed=9089099;

Merlin G., van der Leede B.-J.M., McKune K., Knezevic N.,

Merlin G., van der Leede B.-J.M., McKune K., Knezevic N.,

Merlin F., Kiefer H., Aguet M.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE FROM N.A.
MEDLINE=89003065; PubMed=2971451;
Aguet M., Dembic Z., Merlin G.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens (Human).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Dembic Z.;
Submitted (DEC-1994)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           receptor.";
Cell 55:273-280(1988).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Q14936
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       "Molecular cloning and expression of the human interferon-gamma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Q14936;
                                                                                                                                                                                                                                                                                                                                                                                                           HSSP; P15260;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Immunogenetics 45:413-421(1997).
                                                            195
                                                                                         187
                                                                                                                       135
   250
                          233 LVLALFAFVGFMLILVVVPLFVWKMGRLLQYSCCPVVVLPDTL 275
                                                                                                                                                    146
                                                                                                                                                                                                                                                                                                   y Match 6.1%;
Local Similarity 20.8%;
hes 59; Conservative 53
                                                                                                                                                                                77
                                                                                                                                                                                                              89
                                                                                                                                                                                                                                           29
                                                                                                                                                                                                                                                                      35 LPAPQNLSVLSTNMKHLLMWSPVIAPGETVY-----YSVEYQGEYESLYTSHIWIPSSW 88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    15
VVAAL-----VLSLVFICFYIKKINPLKEKS----IILPKSL
                                                          CDEIQCQLAIPV----SSLNSQYC-SAEGVLHVWGVTTEKSKEVCITIFNSSIKGSLWIP
                                                                                                                                                    XKXGFHLVIEL----
                                                                                                                                                                                                CSLTEGPECDVTDDITATVPYN---LRVRATLGSQTSAMSILKHPFNRNSTILTRPGMEI 145
                                                                                                                    RKEEKQIMIDIFHPSVFVNGDEQEVDYDPETTCYIRVYNVYVRMNGSEIQYKILTQKEDD
                                                                                                                                                                               CINISHHYCNISDHVGD--PSNSLWVRVKARVGQKESAYAKSEEFAVCRDGKIGPPKLDI
                                                                                                                                                                                                                                           VPTPTNVTIESYNMNPIVYWEYQIMPQVPVFTVEVKNYGVK------NSEWIDA--
                                                                                      ----GIPVHLETMEPGAAYCVKAQTFVKAIGXYSAFSQTECVEVQGEA-----IP 232
                                                                                                                                                                                                                                                                                                                                                                 60; LUAN.
IPRO00282; -.
IPRO00282; -.
AA: 53818 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                 ----EDLGPQFE-FLVAY--WXREPGAEEHVKMVRSG---
                                                                                                                                                                                                                                                                                                      53;
                                                                                                                                                                                                                                                                                                   Score 98.5; DE Pred. No. 0.5; 53; Mismatches
                                                                                                                                                                                                                                                                                                                                                                              780B59C2B2C24A2C CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        484
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       æ
                                                                                                                                                                                                                                                                                                                                 DB 4;
                                                                                                                                                                                                                                                                                                     100;
                                                                                                                                                                                                                                                                                                                                 Length 484;
                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                     71;
                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                    194
                                                                                                                                                                               134
                                                                                                                                                                                                                                          76
                                                          249
                                                                                                                                                 186
                                                                                                                                                                                                                                                                                                     14;
```

Search completed: October 12, 2001, Job time: 125 sec 16:11:08

```
Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Result
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Database
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 s
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Run
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           OM protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Maximum
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             nimum
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             tal number of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ŏ
 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB DB
                                                                                                                                             125.5
125.5
121
116.5
114.5
100.5
99
97
95.5
                                                                                                                                                                                                                                                                                                                                                                              191
178.5
178.5
175.5
164.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score
                                                                                                                                95.5
95
                                               88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            seq
seq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         protein search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            length:
length:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query
Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               <del>*</del> 3 2 1:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-09-265-540E-2
1627
PIR_68:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BLOSUM62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           October 12,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             219241 seqs, 76174552 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GenCore version 4.5
Copyright (c) 1993 - 2000 Com
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MQTFTMVLEEIWTSLFMWFF....
                                                                                                                                                                                                                                                                                                              .7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           pir1:*
pir2:*
pir3:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2000000000
489
294
294
297
297
507
508
984
1447
1447
1118
831
987
1928
1928
                                                                                                                                                                                                                                                                                               590
349
560
557
332
578
292
295
575
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 멂
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2001, 16:08:43;
           KFMS3
A32385
T10652
T10652
T110652
T110652
T11069
T11669
A39753
T51669
A540100
                                                                                                                                                                                                                                                                              KFRB3
KFHU3
A49667
A31555
                                                                                                                                                                                                                                                                                                                                              A47003
I38500
A45283
JC6311
S27387
A32694
A49947
I56215
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ħ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               summaries
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            .....VDACATAVMSPEELLRAWIS 311
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Compugen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Search time 16 Seconds (without alignments) 1480.643 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             219241
                                                                                                                                                                            tissue factor prec
tissue factor prec
erythropoietin rec
hypothetical prote
erythropoietin rec
erythropoietin rec
                                                                                                                                                                                                                                                                                                                                            interferon alpha r
interferon alpha/b
interferon gamma r
interleukin-10 rec
                                                                                                             tumor suppressor p
protein-tyrosine k
                                                                                                                                                                                                                                                                                           tissue factor prec
tissue factor prec
interleukin-10 rec
                              erythropoietin rec
                                                                                            protein-tyrosine-p
                                                                                                                                             protein-tyrosine k
tumor suppressor -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Description
                                             beta-galactosidase
                                                                tyrosine kinase
                                                                               prolactin
                                                                                                                                                                                                                                                                                                                                                                                                                                                             cytokine receptor
                                                                                                                                                                                                                                                                               interferon gamma r
                                                                                                                                                                                                                                                                                                                                                                                                                interferon
                                                                                                                                                                                                                                                                                                                                                                                                                                 interferon
                                                                                                                                                                                                                                                                                                                                                                                                                                                interferon
                                                                               receptor
                                                                                                                                                                                                                                                                                                                                                                                                                             gamma r
alpha/b
                            밁
                                                           Ş
                                                                                            밁
                                                                                                                         Qy
                                                                                                                                                             밁
                                                                                                                                                                                         QΥ
                                                                                                                                                                                                                             망
                                                                                                                                                                                                                                                         Qy
```

pregnancy zone pro	S13495	N	1482	5.2	84	5
cytochrome-c oxida	T11431	N	227	5.2	84	4
cytochrome.c oxida	T11366	N	227	5.2	84	ω
cytochrome-c oxida	T11860	N	227	5.2	84	ັນ
cytochrome-c oxida	161843	N	227	5.2	84	Ξ
hypothetical prote	E72616	N	752	5.2	84.5	ö
cytochrome-c oxida	T11250	2	227	5.2	85	9
cytochrome-c oxida	T11053	N	227	5.2	85	8
protein-tyrosine-p	C41214	N	1630	5.3	85.5	7
protein-tyrosine-p	D41214	2	1557	5.3	85.5	8
 aldehyde dehydroge 	н69614	N	495	5.3	86	š
probable membrane	S56193	N	379	5.3	86	4
cytochrome·c oxida	T11483	2	227	5. ن	86	ü
cytochrome-c oxida	137081	2	227	5.3	86	ະ
protein-tyrosine k	150612	N	952	۶. س	87	ï
interleukin-3 rece	156563	N	896	5.3	87	ö

ALIGNMENTS

A;Gene: GDB:CRFB4; CRF2-4
A;Cross-references: GDB:138168; OMIM:123889
A;Map position: 21q; 21q22.1-21q22.2
A;Introns: 17/1; 58/2; 111/1; 166/3; 216/1
C;Keywords: transmembrane protein C;Accession: A47003; G01418
R;Uutfalla, G.; Gardiner, K.; Uze, G.
Genomics 16, 366-373, 1993
A;Title: A new member of the cytokine receptor
A;Reference number: A47003; MUID:93300510
A;Accession: A47003 Š submitted to the EMBL Data A; Reference number: G06935 cytokine receptor family class II protein CRF2-4 precursor - human C;Species: Homo sapiens (man) C;Date: 09-Sep-1994 #sequence_revision 09-Sep-1994 #text_change 01-Dec-2000 A;Molecule type: DNA A;Residues: 1-123,'D',125-268,'VGRME' <LU2> A;Cross-references: EMBL:U08988; NID:g571295; PID:g571296 A; Reference number: A; Accession: G01418 A;Molecule type: mRNA A;Residues: 1-325 <LUT> A;Cross-references: GB:Z17227; NID:g393378; PIDN:CAA78933.1; PID:g393379 C; Genetics: R; Lutfalla, G. A; Status: preliminary A; Status: preliminary; translated from GB/EMBL/DDBJ Query Match
Best Local Similarity 26.6
Matches 77; Conservative 233 107 53 TAQYLSYR-----IFQDKCMNTTLTECDFS-SLSKYGDHTLRVRAEFADEHSDWVNITFC 106 71 12 3 W-SLGSW----LGGCLLVSALGMVPPPENVRMNSVNFKNILQWESPAFAKG-----NLTF QGEYESLYTSHIWIPSSWCSLTEGPECDYTDDITATVPYNLRVRATLGSQTSAW-SILKH 129 WTSLFMWFFYALIPCLLTDEVAILPAPQNLSVLSTNMKHLLMW-SPVIADGETVYYSVEY 70 ---LVLALFAFVGFMLILVVVPLF--VWKMGRLLQYSCCPVVVLPDTLK 276 NGTDEKFQITPQYDFEV-LRNLEPWTTYCVQVRGFLPDRNKAGEWSEPVCEQTTHDETVP PGAEEHVKMVRSGGIPVHLETMEPGAAYCVKAQTFVKAIGXYSAFSQTECVE-VQGEAIP PV--DDTIIGPPGMQVEVLADSL--HMRFLAPKIENEYETWTMKNVYNSWTYNVQYW--K 160 PFNRNSTILTRPGMEIXKXGFHLVIELEDLGPQFE-----11.7%;
26.6%; Library, April 1994 47; Score 191; DB 2; Pred. No. 1.3e-09; protein CRF2-4 precursor -Mismatches gene ------ FLVAYWXRE 173 family maps on chromosome 21 at Length 325; 48; Gaps 52 16;

```
Experimental source: clone pSK1 (ccession: I38501 Molecule type: mRNA A; Residues: 1-63, 'Q',65-337 <RE2> A; Cross-references: EMBL:U05877; NI A; Experimental source: clone pJS3 C; Genetics: A; Map position: 21 C; Keywords: cytokine receptor
                                                                                                                                       C:Species: Mus musculus (house mouse)
C;Date: 25-Mar-1993 #sequence_revision 18-Nov-1994 #text_change 05-Nov-1999
C;Accession: A45283; 148423; 148424; 148425; 148426; 148427; 148428; 148429
R;Uze, G.; Lutfalla, G.; Bandu, M.T.; Proudhon, D.; Mogensen, K.E.
Proc. Natl. Acad. Sci. U.S.A. 89, 4774-4778, 1992
A;Title: Behavior of a cloned murine interferon alpha/beta receptor expresse A;Accession: A45283; MUID:92262522
A;Accession: A45283
A;Status: preliminary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   δõ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            멍
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Cell 76, 793-802, 1994

A; Title: Identification and sequence of an accessory factor required for activation A; Reference number: A49946; MUID:94170380

A; Accession: I38500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               C:Species: Homo sapiens (man)
C:Date: 16-Feb-1996 #sequence_revision
C:Accession: 138501 138501
R:Soh, J.: Donnelly, R.J.: Kotenko, S.:
                                       R;Lutfalla,
                                                          A;Cross-references: GB:M89641; NID:g194111; PIDN:AAA37890.1; PID:g194112
A;Note: sequence extracted from NCBI backbone (NCBIN:102354, NCBIP:102357)
                                                                                                    A; Molecule type: mRNA
A; Residues: 1-590 < UZE>
                                                                                                                                                                                                                                                                                                                                                                                                                                  밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   밁
                       Gene 148,
                                                                                                                                                                                                                                                                                                                                                     A45283
                                                                                                                                                                                                                                                                                                                                                                     RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               interferon
                                                                                                                                                                                                                                                                                                                              interferon alpha/beta receptor - mouse
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Cross-references: EMBL:U05875; NID:g463549; PIDN:AAA16955.1; PID:g463550
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Molecule type: mRNA
Residues: 1-337 <RES>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 220 SWMYAVILMASV-FMYCLALLGCFSLLWCYYKKTKYAFSPRNSLPQHLK
                                                                                                                                                                                                                                                                                                                                                                                                                                    234
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 170 WXREPGAEEHVK-MVRSGGIPVHLETMEPGAAYCVKAQ----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             J.; Donnelly, R.J.; Kotenko, S.; Mariano, T.M.; Cook, J.R.; Wang, N.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       11 IWTSLFMWFFYALIPCLLTDEVAILPAPQNLSVLSTNMKHLLMWSPVIAPGET--VYYSV 68
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  QTSAWSIL---KHPFNRNSTILTRPGMEIXKXGFHLVI-----ELEDLGPQFE-FLVAY 169
                         343-346,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ECVEVQGEA-IPLVLALFAFVGFMLILVVVP----LFVWKMGRLLQY 263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             W--EKGGIQQVKGPFRSNSI--SLDNLKPSRVYCLQVQAQLLWNKSNIFRVGHLSNIS--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LHSAWVTMPWFQH--YRNVTVGPPENIEVTPGEGSLIIRFSSPFDIADTSTAFFCYYVHY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        QFKYTDSKWFTADIMSIGVNCTQITATEC----DFTAASPSAGFPMDFNVTLRLRAELGA 121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                EYQGEYESLYTSHIWIPSSWCSLTEGPECDVTDDITATVP-----YNLRVRATLGS 119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LWSLLLLLGVFAAAAAAPPDPLSQLPAPQHPKIRLYNAEQVLSWEPVALSNSTRPVVYRV
                                                                                                                                                                                                                                                                                                                                                                                                                                -CYETMADASTELQQVILISVGTFSLLSVLAGACFFLVLKYRGLIKY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 gamma
                                           G
::
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 Similarity
75; Conser
                                     Uze,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             receptor accessory factor-1 precursor -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
  0f
                         1994
  the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      11.0%;
murine interferon alpha/beta receptor-encoding gene:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       42;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NID:g463551;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 178.5; DB 2; Pred. No. 1.8e-08;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       16-Feb-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PIDN:AAA16956.1; PID:g463552
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       123;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     #text_change 05-Nov-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ---TFVKAIGXYSAFSQT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               human
                                                                                                                                                                                                                                                                                                                                                                                                                                279
                                                                                                                                                                                                  receptor expressed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               337;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     47;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        65
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     14;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Emanuel,
                                                                                                                                                                                                      'n
high-fred
                                                                                                                                                                                                      homospo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               S
RESULT
JC6311
                                                                                                                                                                                                                                                                                                                                                                                                         Ъ
                                                                                                                       Ş
                                                                                                                                                               В
                                                                                                                                                                                                  Qy
                                                                                                                                                                                                                                            В
                                                                                                                                                                                                                                                                                  Ş
                                                                                                                                                                                                                                                                                                                              밁
                                                                                                                                                                                                                                                                                                                                                                 20
                                                                                                                                                                                                                                                                                                                                                                                                                                               δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            QΥ
                                                                                 밁
```

```
A;Introns: 177/3; 331/1
C;Keywords: cytokine receptor; transmembrane
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A; Reference number: I48423; MUID:95047447
A; Accession: I48423
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A; Molecule type: DN
A; Residues: 473-590
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A; Molecule type: DNA
A; Residues: 426-445 < RE6>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A; Cross-references:
A; Accession: I48427
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A; Molecule type: DNA
A; Residues: 127-224
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A; Cross-references:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A; Cross-references:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A;Status:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A; Accession: I48429
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A;Cross-references: EMBL:U06242; NID:g497112; PIDN:AAA65007.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A;Status: preliminary; translated from GB/EMBL/DDBJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A; Molecule type: DNI
A; Residues: 397-424
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A;Status: preliminary; translated from GB/EMBL/DDBJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A; Residues: 265-375
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A; Accession: I48426
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A;Status: preliminary; translated from GB/EMBL/DDBJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A; Cross-references:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A; Status: preliminary; translated from GB/EMBL/DDBJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A; Accession: I48424
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A; Residues: 118-125
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A; Molecule type: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A; Status:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A; Gene: IFNAR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A; Accession: I48428
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A; Cross · references :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A; Molecule type: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A;Status: preliminary; translated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A;Cross-references: EMBL:U06239; NID:g497106; PIDN:AAA65004.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A; Residues: 243-264 < RE3>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A; Molecule type: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A; Accession: 148425
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local S
Matches 76
  490
                                              290
                                                                                       433
                                                                                                                                   237
                                                                                                                                                                               374
                                                                                                                                                                                                                                                                                                                 121
                                                                                                                                                                                                                                                                                                                                                                                                                                                     197
                                                                                                                                                                                                                                                                                                                                                           256 VLFRAQWLPGYSKSSSGSHSDKWKPIPTCANVQTTHCVFSQDTVYTGTFFLHVQASEGNH
                                                                                                                                                                                                                                                                                                                                                                                                         63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            3 TFTMVLEEIWTSLFMWFFYALIPCLLTDEVAILPAPQNLSVLSTNMKHLLMWSPVIAPGE 62
                                                                                                                                                                           TKISMEKDGP-EFTLKNLQPLTVYCVQARVLFRALLNKTSNFSEKLCEKTRPGSFSTIWI 432
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       preliminary; translated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 preliminary; translated
HTERCFIIENTDTVAVEVKHAPEEDLRKYSS
                                                                                                                                                                                                                                                                   TSFWSEEKFIDSQKHILPPPPVITVTAMSDTLLVYVNCQDSTCDGLNYEIIFW--ENTSN
                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYCLEVKAIHPSLKKHSNYSTVQCISTTVANKMPVPGNLQVDAQGKSYVLKWD-YIASAD
                                                                                       ITGLGVVFFSVMVLYALRSVWK---YLCHVCFPPLKPPRSIDEFFSEPPSKNLVLLTAEE
                                                                                                                               LFAF-VGFMLILVVVPL-FVWKMGRLLQYSCCPVVVLPDTLK--ITNSPQK----LISCRR
                                                                                                                                                                                                                       EHVKMVRSGGIPVHLETMEPGAAYCVKAQTFVKA-IGXYSAFSQTECVEVQGEAIPLVLA 236
                                                                                                                                                                                                                                                                                                               TSAWSILKHPFNRNSTILTRPGMEIXKXGFHLVIEL---EDLGPQFEFLVAYWXREPGAE
                                                                                                                                                                                                                                                                                                                                                                                                      TVYYSVEYQGEYESLYTSHI--WIPSSWCSLTEGPECDVTDDITATVPYNLRVRATLGSQ 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DNA
                                           EEVDACATAVM-SPEELLRAWIS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 <RE7>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            EMBL: U06240; NID: g497108; PIDN: AAA65005
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             <RE2>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          EMBL: U06244; NID: g497114; PIDN: AAA65008.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  EMBL: U06241; NID: 9497110; PIDN: AAA65006.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           <RE5>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        <RE4>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     EMBL: U06238; NID: g497104; PIDN: AAC01749.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  EMBL: U06237; NID: g497103; PIDN: AAA65003.1; PID: g755810
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         <RES>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             11.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        63;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 178.5; DB 2
Pred. No. 3.6e-08;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               from GB/EMBL/DDBJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           from GB/EMBL/DDBJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     from GB/EMBL/DDBJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mismatches
520
                                           311
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          163;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              į.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PID: 9755811
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PID:g510265
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PID: 9755812
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PID:g510261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PID:g755813
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PID:g510262
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        29;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                           315
                                                                                                                                                                                                                                                                                                               177
                                                                                                                                                                                                                                                                                                                                                                                                                                                     255
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        13;
```

```
Biochim. Biophys. Acta 1173, 314-319, 1993
A;Title: Cloning and characterization of a bovine alpha
A;Reference number: S33770; MUID:93305725
A;Accession: S33770
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                interferon alpha receptor type 1 precursor - bovine C;Species: Bos primigenius taurus (cattle) C;Date: 13-Jan-1995 #sequence_revision 13-Jan-1995 #text_change C;Accession: S27387; S33770 R;Mouchel-Vielh, E.; Lutfalla, G.; Mogensen, K.E.; Uze, G. FEBS Lett. 313, 255-259, 1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT
S27387
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ş
                                                                                                                        A; Experimental source: lung C; Keywords: antiviral; cyto
                                                                                                                                                             A;Molecule type: mRNA
A;Residues: 1-421,'V',423-560 <LIM>
A;Cross-references: EMBL:L06320; NID:g163187; PIDN:AAA02571.1;
                                                                                                                                                                                                                                                                                                                            A; Experimental source: MDBK cells R; Lim, J.K.; Langer, J.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 QΥ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 οy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gene 186, 97-101, 1997
A;Title: CRF2-4:isolation of
A;Reference number: JC6311;
A;Accession: JC6311
                                                                              F;1-24/Domain: signal sequence #status predicted <SIG>F;25-560/Product: interferon alpha receptor type 1 #st
                                                                                                                                                                                                                                                                                                                                                                                           A;Status: preliminary; nucleic acid
A;Molecule type: mRNA
A;Residues: 1-560 <MOU>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            밁
                                                                                                                                                                                                                          A; Status: preliminary; nucleic acid
                                                                                                                                                                                                                                                                                                                                                                        A;Cross-references: EMBL:X68443; NID:g431; PIDN:CAA48484.1; PID:g432
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A;Cross-references: GB:U53696
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A; Molecule type: mRNA
A; Residues: 1-349 <GIB>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  R; Gibbs, V.C.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Title: Specific antiviral activities of the Reference number: S27387; MUID:93076908 Accession: S27387
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      nterferon receptor-class II cytokine receptor - me; Species: Mus musculus (house mouse); Date: 16-Jul-1999 #sequence_revision 16-Jul-1999
                                                                                                                        ;Keywords: antiviral; cytokine receptor; transmembrane protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Accession: JC6311
Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Status: preliminary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              224
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    230
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             165
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     178
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    75
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               23 LIPC------LLTDEVAILPAPQNLSVLSTNMKHLLMWSPVIAPGETVYYSVEYQGEY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ഗ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AIPLVLALFAFVGFMLILVVVPLFVWKMGRLLQYSCCPVVVLPDTLK 276
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NSTILTRPGMEIXKXGFHLVIELEDLGPQFE-----FLVAYWXREPGAE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RS-FQDH-----CKRTASTQCDFS-HLSKYGDYTVRVRAELADEHSEWVNVTFCPV--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MAPCVAGWLGGFLLVPALGMIPPPEKVRMNSVNFKNILQWEVPAFPKTNLTFTAQYE-SY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           EKFQVVSPYDSEV-LRNLEPWTTYCIQVQGFLLDQNRTGEWSEPICERTGNDEITPSWIV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             EDTIIGPPEMQIESLAESL--ELRFSAPQIENEPETWTLKNIYDSWAYRVQYW--KNGTN 164
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ESLYTSHIWIPSSWCSLTEGPECDVTDDITATVPYNLRVRATLGSQTSAW-SILKHPFNR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AIILIVSVLVVFLFLLGCFVV----LWLIYKKTKHTFRSGTSLPQHLK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     EHVKMVRSGGIPVHLETMEPGAAYCVKAQTFVKAIGXYSAFSQTECVEVQGE------
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               68;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Pennica, D.
01, 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              10.8%;
10.1%;
21.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     f cDNA clones
MUID:97199375
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             47;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 175.5; DB 2
Pred. No. 3.5e-08;
Score 164.5; DB 2; Pred. No. 6.1e-07;
                                                                                                                                                                                                                          sequence not shown
                                                                                                                                                                                                                                                                                                                                                                                                                                      sequence not
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        encoding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 human alpha
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             119;
                                                                                                                                                                                                                                                                                                                                                                                                                                        shown
                                                                                1 #status
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   mouse
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 .
در
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      #text_change 11-May-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        human and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
                     Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length
                                                                                                                                                                                                                                                                                            interferon receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   interferons are
                                                                                predicted
                                                                                                                                                               PID:g163188
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             53;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  05-Nov-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          mouse
                                                                                  <MAT>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          proteins
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     74
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             223
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     229
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   determined
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 at
```

```
R;Uze, G; Lutfalla, G; Gresser, L.
R;Uze, G,; Lutfalla, G; Gresser, L.
Cell 60, 225-224, 1990
A;Title: Genetic transfer of a functional
A;Title: Genetic transfer of a functional
                                                                                                                                                                                                                                                                                                                F;437-455/Domain: transmembrane #status predicted <TRN2> F;50,58,81,88,110,172,254,313,314,376,416,433,507,518,537/Binding
                                                                                                                                                                                                                                                                                                                                                       C; Reywords: cytokine receptor; glycoprotein; transmembrane F;1-21/Domain: transmembrane #status predicted <TRN1>
                                                                                                                                                                                                                                                                                                                                                                                                A;Cross-references: GDB:120078; OMIM:107450
A;Map position: 21q22.1-21q22.1
A;Introns: 26/1; 67/2; 126/1; 177/3; 225/1; 263/2; 342/1; 381/3; 432/1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A;Molecule type: DNA
A;Residues: 1-16,'A',18-329,'V',343-557 <LUT>
A;Cross-references: EMBL:X60459; NID:932671
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      submitted to the EMBL Data Library, July 1991 A; Description: The structuree of the human in A; Reference number: S17112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A; Molecule type: mRNA
A; Residues: 1-557 < UZE>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     C;Species: Homo sapiens (man)
C;Date: 22-Jun-1990 #sequence_revision
C;Accession: A32694; S17112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Qγ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Qy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             QΥ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                               A; Gene: GDB: IFNAR1; IFNAR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      C;Genetics
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A; Accession: S17112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      R; Lutfalla,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A;Cross-references: GB:J03171; NID:g184645; PIDN:AAA52730.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A; Accession: A32694
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             interferon
                                                                                                                                                                                                             Matches
                                                                                                                                                                                                                              Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
  126
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  499 QTERCFIIENASIITEIEE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           291
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    443
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        268
                                         268 RNPGNHLY---KWKQI---PDCENVKTTQCVFPQNVFQKGIYLLRVQASDGNNTSFWSEE 321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         235 LALFAFYGFMLILVVVPLFVWKMGRLLQYSCCPVVVLPDTLK--ITNSPQK--LISCRRE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    326 TEMKTIIFPPVISVKSVTDDSLHVSVGASEESENMSVNQLYPLIYEVIFWENTSNAERKV
                                                                                                                                                                  21 YALIPCLLTDEVAILPAPQNLSVLSTNMKHLLMWSPVIAPGETVYYSVEYQGEYESLYT-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           EVDAC----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NRNSTILTRPGM---EIXKXGFHLVI----ELEDLGPQ----FEFLVAYWXREPGAEEHV 180
                                                                                                                           YSPVHCIKTTVENELPPPENIEVSVQNQNYVLKW------DYTYANMTFQVQWLHAFLK 267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GTCTALFSIPVVIYVVSVFL----RCVKYVFFPSSKPPSSVDEYFSDQPLRNLLLSTSEE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           KMVRSGGIPVHLETMEPGAAYCVKAQTFVK--AIGXYSAFSQTECVEVQ----GEAIPLV 234
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        KIPGNHSDKWKQIPN--CENVTSTHCVFPREVSSRGIYYVRVRASNGNGTSFWSEEKEFN 325
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               YALIPCLLTDEVAILPAPQNLSVLSTNMKHLLMWSPVIAPGETVYYSVEYQGEYESLYTS
                                                                                  ----SHIWIPSSWCSLTEGPECDVTDDITATVPYN--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           HI-----W--IPSSWCSLTEGPECDVTDDITATVPYNLRVRATLGSQTSAWSILKHPF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      YSPVYCINTTERHKVPSPENIQINADNQIYVLKW-----DYPYENATFQAQWLRAFFK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        alpha/beta receptor precursor -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    G
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        70;
                                                                                                                                                                                                                                Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         -ATAVMSPEE
·ILKHPFNRNSTILTRPGMEIXKXGFHLVI--
                                                                                                                                                                                                                              10.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     IFRC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  517
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         304
                                                                                                                                                                                                             54;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        62;
                                                                                                                                                                                                                              Score 162.5; DB 2; Pred. No. 9.2e-07;
                                                                                                                                                                                                             Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               22-Jun-1990
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               interferon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             interferon alpha
                                                                                                                                                                                                           115;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          136;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               #text_change 22-Oct-1999
                                                                               -LRVRATLGSQTSAWS--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           alpha/beta
                                                                                                                                                                                                           Indels
                                                                                                                                                                                                                                               Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                             protein
ELEDIGPOFEF 165
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PID: g306914
                                                                                                                                                                                                           83;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             receptor into
                                                                                                                                                                                                                                                                                                                  site:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                           Gaps
                                                                                                                                                                    79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           290
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    442
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               80
                                                                                                                                                                                                                                                                                                                    carbohydrate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             gene
                                                                                                                                                                                                           17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        14;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  mouse
```

밁 δã Qy

밁 Ş 밁 Q

Ş

```
C;Accession: A49947
R;Hemmi, S; Bohni, R; Stark, G; Di Marco, F; Aguet, M.
Cell 76, 803-810, 1994
A;Title: A novel member of the interferon receptor family complements ful A;Accession: A49947
A;Accession: A49947
A;Accession: A49947
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-332 <HEM>
A;Cross references: GB:S69336; NID:9545841; PIDN:AAB30165.1; PID:9545842
A;Note: sequence extracted from NCBI backbone (NCBIN:145654, NCBIP:145656
C;Keywords: cytokine receptor
                                                                                                     interleukin-10 receptor - human
C;Species: Homo sapiens (man)
C;Date: 02-Jul-1996 #sequence_revision
C;Accession: 156215
                                                                                                                                                                                                                                                                                                                                                                밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                   밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            δõ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        밁
A; Title: Expression cloning and characterization of a human IL-10 receptor A; Reference number: I56215; MUID: 94165477 A; Accession: I56215
                                                                                                                                                                                                                                                                                                                      Ş
                                                                                                                                                                                                                                                                                                                                                                                                   Qy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Qγ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              밁
                                                       R;Liu, Y.; Wei, S.H.; Ho, A.S.; de Waal Malefyt, R.; Moore, J. Immunol. 152, 1821-1829, 1994
                                                                                                                                                                                                                                                                                밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         9
                                                                                                                                                                                             I56215
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       terferon gamma receptor beta subunit - mouse
lternate names: IFN-gamma R beta chain; IFN-gamma R species-specific cofactor;
species: Mus musculus (house mouse)
Date: 06-Oct-1994 #sequence_revision 18-Nov-1994 #text_change 05-Nov-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
                                                                                                                                                                                                                                                                              228
                                                                                                                                                                                                                                                                                                                                                                    170
                                                                                                                                                                                                                                                                                                                                                                                                          167
                                                                                                                                                                                                                                                                                                                                                                                                                                                      111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               281
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       427
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 224
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        371
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          322 IKFDTEIQAFLLPPVFNIRS---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 67
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  17
                                                                                                                                                                                                                                                                            SCHETTANASARLQQVILIPLGIFALL 254
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SVEYQGEYESLYTSHIWIPSSWCSLTEGPEC-DVTD---DITA-----TVPYN--LRV 113
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MWFFYALIPCLL------TDEVAILPAPQNLSVLSTNMKHLLMWSPVIAPGETVYY 66
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     EYFSEQPLKNLLLSTSEEQIEKC 502
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  EKTKPGNTSKIWL----IVGICIALFALPFVIYAAKVFLR--CINYVFFP-SLKPSSSID
                                                                                                                                                                                                                                                                                                                                                              VHYWEKSETQQEQVEGPFKSNSIV--LGNLKPYRVYCLQTEAQLILKNKKIRPHGLLSNV
                                                                                                                                                                                                                                                                                                                                                                                                     VAYWXREPGAEEHVK-MVRSGGIPVHLETMEPGAAYCVKAQTFV----KAIGXYSAFSQT 221
                                                                                                                                                                                                                                                                                                                                                                                                                                                   RAKRGNLTSKWVGLE-PFQHYENVTVGPPKNISVTPGKGSLVIHFSPPFDVFHGATFQYL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RATLGSQTSAWSILKHPFNRNSTILTRP--GMEIXKXGFHLVIELE---DL--GPQFEFL 166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PVVYQVEYS - - - - - FIDGSWHRLLE-PNCTDITETKCDLTGGGRLKLFPHPFTVFLRV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LW-----LPSLLLCGLGAAASSPDSFSQLAAPLNPRLHLYNDEQILTWEP--SPSSNDPR 58
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           -----PQK--LISCRREEVDAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          VEVQ-GEAIPLVLALFAFVGFMLILVVVPLFVWKMGRLLQYSCCPVVVLPDTLKITNS--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      - I I FWENTSNAERK I I EKKT - - - DVTVPNLKPLTVYCVKARAHTMDEKLNKSSVFSDAVC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LVAYWXREPGAEEHVKMVRSGGIPVHLETMEPGAAYCVKAQ--TFVKAIGXYSAFSQTEC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                    --- IPLVLALFAFV 241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              9.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 157; DB 2;
Pred. No. 1.5e-06;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           295
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ----LSDSFHIYIGAPKQSGNTPVIQDYPLIYE-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
                                                                                                                         02-Jul-1996 #text_change 28-Jul-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        receptor family complements functionality of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 332;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                 K.W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NCBIP: 145656)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          60;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     479
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      426
                                                                                                                                                                                                                                                                                                                                                                                                                                                 169
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            280
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              223
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          370
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 type
```

```
A;Cross-references: EMBL:X53521; NID:g1495; PIDN:CAA37597.1; PID:g3980170
C;Comment: Tissue factor is an integral membrane glycoprotein that serves as a C;Comment: Expression of tissue factor can be induced in a variety of tissues C;Superfamily: tissue factor
C;Keywords: blood coagulation: glycoprotein; lipoprotein; thiolester bond; trace; 1:132/Domain: signal sequence #status predicted <MAT>
F;1-32/Domain: extracellular #status predicted <MAT>
F;3-249/Domain: extracellular #status predicted <MAT>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A;Gene: GDB:IL10R; HIL-10R
A;Cross-references: GDB:330958; OMIM:146933
A;Map position: 11q23.3-11q23.3
C;Superfamily: interleukin-10 receptor IL10R
C;Keywords: cytokine receptor
F:250-271/Domain: transmembrane #status predicted <TMM>F:272-292/Domain: intracellular #status predicted <INT>F:272-292/Domain: intracellular #status predicted <INT>F:41.114,154,167,182/Binding site: carbohydrate (Asn) (0 F:79-87,216-239/Disulfide bonds: #status predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Qy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         QΥ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        망
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: mRNA
A;Residues: 1-578 <RES>
                                                                                                                                                                                                                                                                            A; Molecule type: mRNA
A; Residues: 33-292 < PAW>
                                                                                                                                                                                                                                                                                                                                                                       A; Title: Molecular cloning, A; Reference number: S23681;
                                                                                                                                                                                                                                                                                                                                                                                                                    R;Pawashe, A.; Ezekowitz, M.; Lin, T.C.; Horton, R.; Thromb. Haemost. 66, 315-320, 1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                               A;Cross-references: GB:M55390; NID:g165696; PIDN:AAA63469.1; PID:g165697
A;Experimental source: brain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A; Title: Conservation of tissue factor primary A; Reference number: JU0441; MUID:91200676
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               N;Alternate names: coagulation factor III
C;Species: Oryctolagus cuniculus (domestic rabbit)
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                C; Genetics:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A; Cross - references:
                                                                                                                                                                                                                                                                                                                            A; Status: preliminary
                                                                                                                                                                                                                                                                                                                                                 A; Accession:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A; Molecule type: mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A; Accession:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gene 98,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      R; Andrews,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           C; Accession:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      tissue factor precursor - rabbit
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A; Residues: 1-292 < AND>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        224
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   224
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                174
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             173
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           116
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   23 LIPCLLTDEVAI-------LPAPQNLSVLSTNMKHLLMWSPVIAPGETVYYSVE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 MLPCLVVLLAALLSLRLGSDAHGTELPSPPSVWFEAEFFHHILHWTPIPNQSESTCYEVA 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 265-269,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 #sequen
on: JU0441; S23681
B.S.; Reh-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 VEV--QGEAIPLVLALFAFV----GFMLILVVVPLFVWKMGRLLQYSCCPVVVL 271
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                VPGNFTFTHKKVKHENFSLLTSGEV-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TRFSVDEVTLTVGSVNLEIHN-GFILGKIQLPRPKMAPANDTYESIFSHFREYEIAI-RK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   HPFNRNSTILT--RPGMEIXKXGFHL-VIEL-----EDLGPQF-EFLVAYWXR 172
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           YQGEYESLYTSHIWIPSSWCSLTEGPECD-VTDDITATVPYNLRVRATLGSQTSAWSILK 128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                L-----LRYGIESWNSISNCSQTLSYDLTAVTLDLYHSNGYRARVRAVDGSRHSNWTVTN 115
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ISLTROYFTVTNVIIFFAFVLLLSGALAYCLALQLYVRRKKL-----PSVLL 271
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           EPG-----AEEHVKMVRSGGIPVHLETMEPGAAYCVKAQTFVKAIGXYSAFSQTEC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   70;
                                                                                                                                                                                                                                                                                                                                                      S23681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              JU0441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; Rehemtulla, A.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     EMBL:U00672; NID:g482802; PIDN:AAA17896.1; PID:g482803
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8.4%;
                                                                                                                                                                                                                                                                                                                                                                         characterization and MUID: 92081032
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                47;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Fowler, B.J.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 136; DB 2;
Pred. No. 0.00023;
7; Mismatches 109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                -GEFCVQVKPSVASRSNKGMWSKEEC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Edgington,
                                                                                                                                                                                                                                                                                                                                                                                               expression
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   109;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 #text_change 21-Jul-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 578
                                                                                                                                                                                                                                                                                                                                                                                                                                            Bach, R.;
                          (covalent) #status
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         among
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      T.S.;
                                                                                                                                                                                                                                                                                                                                                                                                 of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           three
                                                                                                                                                                                                                                                                                                                                                                                                 cDNA for rabbit
                                                                                                                                                                                                                                                                                                                                                                                                                                            Konigsberg,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                68;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mackman,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           mammalian
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                223
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           223
                          predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                            Σ
                                                                                                                                                                 transmembr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                14;
                                                                                                                                                                                                                                    Ω
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         species
                                                                                                                                                                                                          bу
                                                                                                                                                                                                            recept
by cert
```

F;274/Binding

site:

palmitate (Cys) (covalent) #status experimental

```
Molecule type: mRNA kesidues: 1-295 <FIS>
Residues: 1-295 <FIS
Res
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     C;Species: Homo sapiens (man)
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 08-Dec-2000
C;Accession: A43645; A47574; A28320; A29062; A29672; A29008
R;Mackman, N.; Morrissey, J.H.; Fowler, B.; Edgington, T.S.
Blochemistry 28, 1755-1762, 1989
A;Title: Complete sequence of the human tissue factor gene, a highly regulated cellular A;Reference number: A43645; MUID:89247359
A;Accession: A43645
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ş
A; Title: Human tissue factor: cDNA sequence and chromosome localization of the gene A; Reference number: A29672; MUID:88050796
                                                                                      A;Cross-references: GB:J02931; NID:g339501; PIDN:AAA61150.1; PID:g339502 A;Note: part of this sequence, including the amino end of the mature protein, R;Scarpati, E.M.; Wen, D.; Broze Jr., G.J.; Miletich, J.P.; Flandermeyer, R.R. Biochemistry 26, 5234-5238, 1987
                                                                                                                                                                                                                                                                  A; Molecule type: mRNA
A; Residues: 1-295 < MOR>
                                                                                                                                                                                                                                                                                                                                                                                                 Cell 50, 129-135, 1987
A;Title: Molecular cloning of the cDNA for tissue factor, the A;Reference number: A29062; MUID:87244317
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            R; Morrissey, J.H.; Fakhrai, H.; Cell 50, 129-135, 1987
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A; Molecule type: mRNA
A; Residues: 1-295 <SPI>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A; Title: Cloning and expression of human A; Reference number: A47574; MUID:88100453
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A;Cross-references: GB:J02846; NID:g339505; PIDN:AAA61152.1; PID:g339506 R;Fisher, K.L.; Gorman, C.M.; Vehar, G.A.; O'Brien, D.P.; Lawn, R.M. Thromb. Res. 48, 89-99, 1987
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A; Molecule type: DNA
A; Residues: 1-295 < MAC>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         tissue factor precursor [validated] - human N; Alternate names: coagulation factor III
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Š
                                                                                                                                                                                                                                                                                                                                                        A; Accession: A29062
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A; Accession: A47574
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Cross-references: GB:J02931; NID:g339501; PIDN:AAA61150.1; Morrissey, J.H.; Fakhrai, H.; Edgington, T.S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  243 FMLILVVVPLFVWK 256
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   186
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    144 QSFEQVGTKLNVTVQDARTLVRRNGTFLSLRAVFGKDLNYTLYYWR----ASSTGKKTAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     260 VALLIIVLSVTVYK 273
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        200 TNTNEFLIDVDKGENYCFSVQAVIPSRKRKQRSPESLTECTSREQGRAREMFFIIGAVVV 259
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      144 E-IXKXGFHLVIELED-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  94
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               40 NLSVLSTNMKHLLMWSPVIAPGETVYYSVEYQGEYESLYTSHI-----WIPSSWCSLTE 93
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GPECDVTDDITATV--PYNLRVRATLGSQTSAWSILKHPFNRNS-----TILTRPGM 143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GGIPVHLETMEPGAAYCVKAQTFV--KAIGXYSAFSQTECV-EVQGEAIPLVLALFAFVG 242
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ETECDLTDEVVKDVGQTYMARVLSYPARNGNTTGFPEEPPFRNSPEFTPYLDTNLGQPTI 143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NLTWKSTNFKTILEWEP - -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 130;
Pred. No. 0.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      -----LGPQFEFLVAYWXREPGAEEHVKMVRS 185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           tissue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         -VYTVQISTRLENW--KSKCFLTA 83
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              00036;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 292
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PID: 9339502
                                                                                                                                                                                                                                                                                                                                                                                                                                              cellular receptor for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     58;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       structure
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Kraus,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     11;
                                                                                                                               Siegel,
                                                                                                                                                                            confi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             J.; L
                                                                                                                                                                                                                                                                                                                                                                                                                                                   the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ρ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      밁
```

```
A;Map pustion: 34/1; 71/2; 138/1; 197/3; 201/1
A;Introns: 34/1; 71/2; 138/1; 197/3; 201/1
C;Superfamily: tissue factor
C;Superfamily: tissue factor
C;Reywords: blood coagulation; glycoprotein; lipoprotein; thiolester bond;
F;1-32/Domain: signal sequence #status predicted <SIG>F;3-95/Product: tissue factor #status predicted <EXT>F;3-95/Product: tissue factor #status predicted <EXT>F;3-251/Domain: extracellular #status predicted <INT>F;25-274/Domain: transmembrane #status predicted <INT>F;43-Binding site: carbohydrate (Asn) (covalent) #status experimental
F;156,169/Binding site: carbohydrate (Asn) (covalent) #status predicted
F;156,169/Binding site: carbohydrate (Asn) (covalent) #status experimental
F;156,169/Binding site: palmitate (Cys) (covalent) #status experimental
                                                                                                                                                                                                                                                                                            R;HO, A.S.; Liu, Y.; Khan, T.A.; Hsu, D.H.; Bazan, J.F.; Moore, Proc. Natl. Acad. Sci. U.S.A. 90, 11267-11271, 1993
A;Title: A receptor for interleukin 10 is related to interferon A;Reference number: A49667; MUID:94068385
A;Accession: A49667
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A; Molecule type: mRNA
A; Residues: 1-259, 'A', 261-295 <SCA>
A; Cross-references: GB: M16553; NID: g339503; PIDN: AAA61151.1; PID: g339504
R; Bach, R; Konigsberg, W.H., Nemerson, Y.
Blochemistry 27, 4227-4231, 1988
Blochemistry 27, 427-4231, 1988
A;Gene: Ill0r
C;Superfamily: interleukin-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  C;Species: Mus musculus (house mouse)
C;Date: 02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change 28-Jul-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Вþ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             οy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A;Contents: annotation; disulfide bonds and fatty acid binding site C;Comment: Tissue factor is an integral membrane glycoprotein that c;C;Comment: Expression of tissue factor can be induced in a variety of the comment of the comme
                                                                                     C; Genetics:
                                                                                                                              A; Cross-references:
                                                                                                                                                                           A; Molecule type: mRNA
A; Residues: 1-575 < RES>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A; Title: Human tissue factor contains thioester-linked A; Reference number: A37422; MUID:89000604
                                                                                                                                                                                                                                                        A; Status: preliminary; translated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C; Accession: A49667
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A;Cross-references: GDB:119895; OMIM:134390
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A; Gene: GDB:F3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           C;Genetics
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A; Map position: 1p22-1p2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            interleukin-10 receptor -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Best
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           223
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            125 LYENSPEFTPYLETNLGQPTIQSFEQVGTKVNVTVEDERTLVRRNNTFLSLRDVFGKDLI 184
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  131 FNRNS-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            13 TSLFMWFFYALIPCLLTDEVAILPAPQNLSVLSTNMKHLLMWSPVIAPGETVYYSVEYQG 72
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CMGQEKGEFREIFYIIGAVVFVVIILVII
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CV-EVQGEAIPLVLALFAFVGFMLILVVV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 YTLYYWKSSSSGKKTAKT----NTNEFLIDVDKGENYCFSVQAVIPSRTVNRKSTDSPVE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         EYESLYTSHIWIPSSWCSLTEGPECDVTDDITATV--PYNLRVRATLGSQTSAWSILKHP 130
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FLVAYWXREPGAEEHVKMVRSGGIPVHLETMEPGAAYCVKAQTFV--KAIGXYSAFSQTE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   K-----SGDW--KSKCFYTTDTECDLTDEIVKDVKQTYLARVFSYPAGNVESTGSAGEP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TLLLGWVFAQVAGASGTTNTV---AAYNLTWKSTNFKTILEWEP--KPVNQV-YTVQIST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      63;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                              GB:L12120;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             -TILTRPGME-IXKXGFHLVIELED---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   23.4%;
receptor IL10R
                                                                                                                              NID:g437615; PIDN:AAA16156.1; PID:g437616
                                                                                                                                                                                                                                                                 from GB/EMBL/DDBJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 pred. No. 0.00
pred. Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 125.5; DB 1 Pred. No. 0.00093;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     269
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           250
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (covalent) #status predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             lipoprotein; thiolester bond;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  palmitate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            295;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 49;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LGPQFE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           and stearate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           serves as
of tissue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                tissues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             164
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   124
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      transmembr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 12;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                by
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                recept
by cert
```

cytokine

```
A;Title: Molecular cloning
A;Reference number: A31555;
A;Accession: A31555
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 밁
                                                                   Ş
                                                                                                              밁
                                                                                                                                               Ş
                                                                                                                                                                                        밁
                                                                                                                                                                                                                     δÃ
                                                                                                                                                                                                                                                                  밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         R; Aguet, M.; Dembic, Z.; Merlin, Cell 55, 273-280, 1988
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Interferon gamma receptor precursor - human
C;Species: Homo sapiens (man)
C;Date: 28 Feb-1990 #sequence_revision 28-Feb-1990 #text_change
C;Accession: A31555
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Qy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    밁
 Š
                                    밁
                                                                                                                                                                                                                                                                                                 Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A; Residues: 1-489 < AGU>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A; Gene: GDB: IFNGR1; IFNGR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A;Cross-references: GB:J03143; NID:g184650;
                                                                                                                                                                                                                                                                                                                                          Matches
                                                                                                                                                                                                                                                                                                                                                                             Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Cross-references: GDB:120688; OMIM:107470
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                               lap position: 6q23-6q24
luperfamily: interferon gamma receptor
luperfamily: optokine receptor; transmembrane
233
                                    195 CDETQCQLAIPV----SSLNSQYCVSAEGVLHVWGVTTEKSKEVCITIFNSSIKGSLWIP
                                                                                                                                               146 XKXGFHLVIEL------EDLGPQFE-FLVAY--WXREPGAEEHVKMVRSG---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       286 LCPETPDAIHIVD 298
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               233 YFTVTNLSILVISMLLFCG-ILVCLVLQWYIRHPGKL---
                                                                                                                                                                                                                             89
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             63
                                                                                                                                                                                        77
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          74 YESLYTSHIWIPSSWCSLTEGPECDVT----DDITATVPYNLRVRATLGSQTSAWSILKH 129
                                                                                                                                                                                                                                                                  29
                                                                                                                                                                                                                                                                                                                                                             Local Similarity
                                                                                                                                                                                                                                                                                                   35 LPAPQNLSVLSTNMKHLLMWSPVIAPGETVY-----YSVEYQGEYESLYTSHIWIPSSW
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      23 LIPCLLT-----DEVAI----LPAPQNLSVLSTNMKHLLMWSPVIAPGETVYYSVEYQGE 73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      s
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REPGAEEHVKM-VRSGGIPVHLETMEPGAAYCVKAQTFVKAIGXYSAFSQTECVEVQGEA 230
LVLALFAFVGFMLILVVVPLFVWKMGRLLQYSCCPVVVLPDTL 275
                                                                                                            RKEEKQIMIDIFHPSVFVNGDEQEVDYDPETTCYIRVYNVYVRNNGSEIQYKILTQKEDD
                                                                                                                                                                                    CINISHHYCNISDHVGD--PSNSLWVRVKARVGQKESAYAKSEEFAVCRDGKIGPPKLDI 134
                                                                                                                                                                                                                         CSLTEGPECDVTDDITATVPYN---LRVRATLGSQTSAWSILKHPFNRNSTILTRPGMEI 145
                                                                                                                                                                                                                                                              VPTPTNVTIESYNMNPIVYWEYQIMPQVPVFTVEVKNYGVK------NSEWIDA--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          -----PDTLKITN 279
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ELKNATKRVKQETFTLTVPIGVR-----KFCVKVLPRLESRINKAEWSEEQCLLITTEQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RETVDEVILTVDSVTLKAMDGIIYGTIHPPRPTITPAGDEYEQVFKDL-RVYKISIRKFS 178
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ---QYGNSTWNDIHICRKAQALSCDLTTFTLDLYHRSYGYRARVRAVDNSQYSNWTTTET 119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LLPFLVTISSLSLEFIAYGTELPSPSYVWFEARFFQHILHWKPIPNQSESTYYEVALK--
                                                                       -----GIPVHLETMEPGAAYCVKAQTFVKAIGXYSAFSQTECVEVQGEA-----IP
                                                                                                                                                                                                                                                                                                                                          61;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ----PLVLALFAFVGFMLILVVVPLFVWKMGRLLQYSCCPVVVL------
                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                         7.48;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                20.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          and expression; MUID:89003065
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    54; Mismatches 102;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        53; Mismatches 121;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 125.5; DB 2; Pred. No. 0.0021;
                                                                                                                                                                                                                                                                                                                                                             Pred.
                                                                                                                                                                                                                                                                                                                                                           Score 121; DB 2; Pred. No. 0.0043;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PIDN:AAA52731.1; PID:g306915
                                                                                                                                                                                                                                                                                                                                                                                                                                   protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           the human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               -PTVLVFKKPHDFFPANP 285
                                                                                                                                                                                                                                                                                                                                                                             Length 489
                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         interferon-gamma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 575;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            75;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     23-Jul-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   62
                                                                                                              194
                                                                                                                                                 186
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    271
                                                                                                                                                                                                                                                              76
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         receptor
                                                                                                                                                                                                                                                                                                                                        13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            12;
```

RESULT KFBO3

tissue factor precursor -

bovine

```
A;Cross references: GB.M26071; NID:9201924; PIDN:AAA40414.1; PID:9201925 R;Ranganathan, G.; Blatti, S.P.; Subramaniam, M.; Pass, D.N.; Maihle, N.J.; J. Biol. Chem. 266, 496-501, 1991 A;Title: Cloning of murine tissue factor and regulation of gene expression A;Reference number: A39046; MUID:91093171 A;Accession: A39046
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   F;1-29/Domain: signal sequence #status predicted <SIG>F;30-294/Product: tissue factor #status predicted <MAT>F;30-251/Domain: extracellular #status predicted <EXT>F;30-251/Domain: transmembrane #status predicted <TMM>F;352-274/Domain: transmembrane #status predicted <TMM>F;37,57,169,200/Binding site: carbohydrate (Asn) (covalent) #status F;75-83,218-241/Disulfide bonds: #status predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        C;Comment: Tissue factor is an integral membrane glycoprotein that serves as a recept C;Comment: Expression of tissue factor can be induced in a variety of tissues by cert C;Superfamily: tissue factor C;Keywords: blood coagulation; glycoprotein; lipoprotein; thiolester bond; transmembr
                                                                                                                                                            δõ
                                                                                                                                                                                                                                                                            Ş
                                                                                                                                                                                                                                                                                                                                                                                       δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                 밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ωy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       R;Hartzell, S.; Ryder, K.; Lanahan, A.; Lau, L.F.; Nathans, D. Mol. Cell. Biol. 9, 2567-2573, 1989
A;Tille: A growth factor-responsive gene of murine BALB/c 3T3
A;Reference number: A32318; MUID:89343974
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  C;Species: Mus musculus (house mouse)
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 22-Jun-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   밁
                                                                                                                                                                                                                        밁
                                                                                                                                                                                                                                                                                                                                      밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A;Cross-references: GB:M57896; GB:J05713; NID:g201926; PIDN:AAA63400.1; PID:g201927
A;Note: 26-Thr was also found
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A; Molecule type: mRNA
A; Residues: 1-25,'I',
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A; Molecule type: mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          C; Accession:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         N; Alternate names: coagulation factor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         F;275/Binding site: palmitate (Cys) (covalent) #status experimental
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A; Residues: 1-294 <HAR>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A;Accession: A32318
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     tissue factor precursor - mouse
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 7.2%;
Best Local Similarity 23.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                251 VVAALLLEL--VLSLVFICFYIKKINPLKEKS----IILPKSL
285
                                                                                                                                                                                                                           176
                                                                                                                                                                                                                                                                                                                                         120
                                                                                                                                                                                                                                                                                                                                                                                          121
                                                                                                          230
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     74
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             22 ALIP----CLLTDEVAILPAPQ---NLSVLSTNMKHLLMWSPVIAPGETVY-YSVEYQGE 73
                                                    VVVLPDTLKITNSPQKL
                                                                                                          TNQNSPGSSTVCTEQWKSFLGETLIIVGAVVLLATIFIILLSISLCKRRKNRAGQ-----
                                                                                                                                                            IGXYSAFSQTECVE----VQGEAIPLVLALFAFVGFMLILVVVPLFVWKMGRLLQYSCCP 267
                                                                                                                                                                                                                   R-QVFGKDLGYIITYRKGSSTGKKTNITNTNEFSIDV-----EEGVSYCFFVQAMIFSRK 229
                                                                                                                                                                                                                                                                            ELEDLGPQFEFLVAY-WXREPGAEEHVKMVRSGGIPVHLETMEPGAAYC--VKAQTFVKA 211
                                                                                                                                                                                                                                                                                                                                                                                          ----TSAWSILKHPFNRNSTILTRPGME---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     YESLYTSHIWIPSSWCSLTEGPECDVTDDIT--ATVPYNLRVRATL-----GSQ--- 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ALAPTFLGCLLLQVTAGAGIPEKAFNLTWISTDFKTILEWQ----PKPTNYTYTVQISDR 67
                                                                                                                                                                                                                                                                                                                                   HGEEPPFTNAPKFLPY----RDTNLGQPVIQQFEQDGRKLNVVVKDSLTLVRKNGTFLTL 175
                                                                                                                                                                                                                                                                                                                                                                                                                                                 -----SRNW--KNKCFSTTDTECDLTDEIVKDVTWAYEAKVLSVPRRNSVHGDGDQLVI 119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A32318; A39046
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
  KGKNTPSRL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   27-294 <RAN>
293
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       38;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 116.5; DB Pred. No. 0.006;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       116;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                287
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length
                                                                                                                                                                                                                                                                                                                                                                                       -IXKXGFHLVI 154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         cells
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       89;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         encodes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              by transfo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ø
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Getz,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        M.J
```

```
erythropoietin receptor precursor, membrane-bound form - mouse C;Speciaes: Mus musculus (house mouse) C;Date: 28-Sep-1990 #sequence_revision 05-Apr-1995 #text_change 22-Jun-1999 C;Accession: A41686; A32385; S13249 R;Hino, M.; Tojo, A.; Misawa, Y.; Morii, H.; Takaku, F.; Shibuya, M. Mol. Cell. Biol. 11, 5527-5533, 1991 Mol. Cell. Biol. 11, 5527-5533, 1991 A;Title: Unregulated expression of the erythropoietin receptor gene caused ha;Reference number: A41686; MUID:92017832 A;Accession: A41686
                                                                                          A;Cross-references: GB:S59388; NID:g237036; PIDN:AAB20029.1; PID:g237037 A;Experimental source: murine erythroleukemia (MEL) cell line F5-5 R;D'Andrea, A.D.; Lodish, H.F.; Wong, G.G. cell 57, 277-285, 1989
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              249-271/Domain: transmembrane #status predicted <TMM>
7;272-992/Domain: intracellular #status predicted <INT>
F;43,153,181/Binding site: carbohydrate (Asn) (covalent) #status predicted
F;81-89,215-238/Disulfide bonds: #status predicted
F;118,124/Binding site: carbohydrate (Thr) (covalent) #status predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A;Note: part of this sequence, including the amino end of the mature protein, was confine C;Comment: Tissue factor is an integral membrane glycoprotein that serves as a receptor C;Comment: Expression of tissue factor can be induced in a variety of tissues by certain C;Superfamily: tissue factor C;Superfamily: tissue factor C;Keywords: blood coagulation; glycoprotein; lipoprotein; thiolester bond; transmembrane F;1-35/Domain: signal sequence #status predicted <SIG>F;36-292/Product: tissue factor #status experimental <MAT>
36-248/Domain: extracellular #status predicted <SIG>F;36-248/Domain: extracellular #status experimental <Ambinous #status #status experimental <Ambinous #status #sta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               C;Accession: JQ1319
R;Takayenoki, Y.; Muta, T.; Miyata, T.; Iwanaga, S.
Biochem. Biophys. Res. Commun. 181, 1145-1150, 1991
A;Title: CDNA and amino acid sequences of bovine tissue factor A;Reference number: JQ1319; MUID:92109720
A;Accession: JQ1319
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A;Cross-references: GB:S74147; NID:g241438; PIDN:AAB20755.1; PID:g241439 A;Experimental source: adrepal gland
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   N;Alternate names: coagulation factor III C;Species: Bos primigenius taurus (cattle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A; Molecule type: mRNA
A; Residues: 1-292 <TAK>
A;Title: Expression cloning of the murine erythropoietin receptor A;Reference number: A32385; MUID:89195238
                                                                                                                                                                                                                                                                                             A; Molecule type: mRNA
A; Residues: 1-507 <HIN>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity
Matches 49; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ;274/Binding site: palmitate (Cys) (covalent) #status experimental
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Species: Bos primigenius taurus (cattle);Date: 30-Sep-1993 #text_change 22-Jun-1999;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 22-Jun-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      189
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            247 LVVVPLFV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     146
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    146
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       204 --FLIDVDKGENYCFHVQAVILSRRVNQKSPESPIKCTSHEK---VLSTELFFIIGTVML
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   86
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             94
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            43
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PVHLETMEPGAAYCVKAQTFV--KAIGXYSAFSQTECVEVQGEAIPLVLALFAFVGFMLI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    XKXGFHLVIELED-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NTECDVTDEIVKNVRETYLARVLSYPADTSSSTVEPPFTNSPEFTPYLETNLGQPTIQSF 145
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GPECDVTDDITATVPYNLRVRATLGSQTSAWSILKHPFNRN-----STILTRPGME-I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  VIIIFIVV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     EQVGTKLNVTVQDARTLVRANSAFLSLRDVFGKDLNYTLYYWKASSTGKKKATTNTNG--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NITWKSTNFKTILEWEP---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NLSVLSTNMKHLLMWSPVIAPGETVYYSVEYQGEYESLYTSHI-----WIPSSWCSLTE 93
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        7.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ------KPINHVYTVQISPRLGNW--KNKCFYTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; Score 114.5; DE
; Pred. No. 0.009;
39; Mismatches 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               -----LGPQFEFLVAYWXREPGAEEHVKMVRSGGI 188
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (covalent) #status predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     103;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      receptor gene caused by
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               292;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     57;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      246
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            85
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     203
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                insertion
```

```
밁
                                           Ş
                                                                                              Вþ
                                                                                                                                         8
                                                                                                                                                                                             БР
                                                                                                                                                                                                                                           Ş
                                                                                                                                                                                                                                                                                              DЬ
                                                                                                                                                                                                                                                                                                                                         2
                                                                                                                                                                                                                                                                                                                                                                                            밁
                                                                                                                                                                                                                                                                                                                                                                                                                                        8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      F;250-271/Domain: transmembrane *status predicted F;272-507/Domain: intracellular *status predicted F;52-62,90-106/Disulfide bonds: *status predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             F:1-24/Domain: signal sequence #status predicted <SIG>F:25-507/Product: erythropoletin receptor #status predicted <MAT>F:25-249/Domain: extracellular #status predicted <EXT>F:52-249/Domain: cytokine receptor homology <CRS>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            C; Superfamily: erythropoletin receptor; cytokine receptor homology C; Keywords: alternative splicing; cytokine receptor; glycoprotein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A;Cross-references: EMBL:X53081; NID:g50861; PIDN:CAA37248.1; PID:g50862 A;Experimental source: murine erythroleukemia K-1 cells
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A; Molecule type: DNA; m
A; Residues: 1-507 < KUR>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A; Reference number: S13249; MUID: 91080149
A; Accession: S13249
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        R:Kuramochi, S.; Ikawa, Y.; Todokoro, K.
J. Mol. Biol. 216, 567-575, 1990
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A;Cross-references: GB:J04843; NID:g193090; PIDN:AAA37571.1; PID:g309219 A;Experimental source: murine erythroleukemia (MEL) cells, subclone 745
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A; Accession: A32385
A; Molecule type: mRNA
A; Residues: 1-507 <DAA>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 F;75/Binding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A; Introns: 39/1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           C; Genetics:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A; Title: Characterization of murine erythropoietin receptor genes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Best
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
                                                                                                                                                                                                                                                                                                127
277
                                                                                                                                                                                             165 WLPPPGAPMTTHIRYEVDVSAGNRAGGTQ-RVEVLE-GRTECVLSNLRGGTRYTFAVRAR
                                                                                                                                                                                                                                                                                                                                              117
                                                                                                                                                                                                                                                                                                                                                                                               76 YSFSYQLEGESRKS------CSLHQAPTVRGSVRFWCSLPTADTSSFVPLELQVTEA 126
                                                                                                                                                                                                                                                                                                                                                                                                                                             66 YSVEYQGEYESLYTSHIWIPSSWCSLTEGPE-----CDV-TDDITATVPYNLRVRAT 116
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             16 CLLLAGAAWAPSPSLPDPKFESKAALLASRGSEELLCFTQRLEDLVCFWEEAASSGMDFN 75
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           26 CLLTDEVAILPAP-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Local
LQQKIWPGIPSPES 290
                                                                                                                                                                                                                                           WXREPGA--EEHVKMV-----RSGGIPVHLETMEPGAAYCVKAQ-----TF-VKA-
                                                LQYSCCPVVVLPDT 274
                                                                                                 MAEPSFSGFWSAWSEPASLLTASDLDPLILTL-----SLILVLISLLLTVLALLSHRRT 276
                                                                                                                          -----IGXYSAFSQTECVEVQGEAIPLVLALFAFVGFMLILVVVVPLFVWKMG-----RL
                                                                                                                                                                                                                                                                                              SGSPRYHRIIHINEVVLLDAP----AGLLARRAEE----GSHVVLR---
                                                                                                                                                                                                                                                                                                                                            LGS-----QTSAWSILKHPFNRNSTILTRPGMEIXKXGFHLVIELEDLGPQFEFLVAY 169
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 site: carbohydrate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 83/2; 142/1; 194/3; 246/1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DNA; mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   7.0%;
23.2%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         39;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               #status predicted
#status predicted
(Asn) (covalent) #
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 114; DB 1
Pred. No. 0.019;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ----QNLSVLSTNMKHLL-MWSPVIAPGETVY 65
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 275/2; 304/3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    #status
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            98;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  <INT>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AMMF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 507
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels 104;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 transmembrane prot
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                               222
                                                                                                                                                                                                                                             211
```

18;

Search completed: October 12, Job time: 115 sec 2001, 16:10:38

```
Searched:
                                                                                                    Scoring table:
                                                                                                                                             Sequence:
                                                                                                                                                              Title:
Perfect score:
                                                                                                                                                                                                                                                                  Run on:
                                                                                                                                                                                                                                                                                                       OM protein -
tal number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                     protein search, using sw model
                                                                                                                                                                                                                    October 12, 2001, 16:08:23 ; Search time 12.3 Seconds (without alignments) 520.618 Million cell updates/sec
                                     197339 seqs, 20590346 residues
                                                                             BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                              US-09-265-540E-2
1627
                                                                                                                                         1 MQTFTMVLEEIWTSLFMWFF.....VDACATAVMSPEELLRAWIS 311
                                                                                                                                                                                                                                                                                                                                                                GenCore version 4.5 Copyright (c) 1993 - 2000 Compugen Ltd.
    197339
```

Animum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database :

1: /cgn2_6/ptodata/2/laa/5A_COMB.pep:*
2: /cgn2_6/ptodata/2/laa/5B_COMB.pep:*
3: /cgn2_6/ptodata/2/laa/6A_COMB.pep:*
4: /cgn2_6/ptodata/2/laa/6B_COMB.pep:*
5: /cgn2_6/ptodata/2/laa/CTUS_COMB.pep:*
6: /cgn2_6/ptodata/2/laa/backfilesl.pep:* Issued_Patents_AA:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

27	26	25	24	23	22	21	20	19	18	17	16	15	14	. 13	12	11	10	9	8	7	6	5	4	ω ω	2	1	No.	1
138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	146	157	162.5	٠	162.5	162.5	•		191	Score	
œ.	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	9.0	9.6	10.0	10.0		10.0	10.0	10.8	11.7	Match	
553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	223	332	557	557	557	557	557	337	325	Length	
N	N	N	N	N	N	N	N	N	N	N	N	N	Ŋ	N	N	N	N	v	v	N	N	N	_	ш	ഗ	N	DB	
US-08-943-087-46		US-08-943-087-42	US-08-943-087-40	-087-	US-08-943-087-36	US-08-943-087-34	-087-	US-08-943-087-30	US-08-943-087-28	US-08-943-087-26	7-	US-08-943-087-22	US-08-943-087-20	US-08-943-087-18	US-08-943-087-16	1	US-08-943-087-2	PCT-US94-14277-6	PCT-US94-14277-2	US-08-307-588-4	US-08-471-453-2	US-08-466-974-2	US-08-471-454-2	US-08-328-256-10	PCT-US94-14277-8	US-08-683-743-4	ID	
Sequence 46, Appl	44,	42,	40,	38,	36,	34,	32,	30,	28,	26,	24,	22,	20,	18,	16,	14	2	6	2	4,	2	2	Sequence 2, Appli	10	8	Sequence 4, Appli	Description	

Query Match 11.7%; Score 191; DB 2; Length 325; Best Local Similarity 26.6%; Pred. No. 1.4e-12; Matches 77; Conservative 47; Mismatches 117; Indels

Indels 48;

Gaps

16;

		~	N	۳	0	39	38	37	36	35	34	33	32	31	30	29	87
126.5	128.5	131	131.5	133.5	134.5	135.5	135.5	136	136	136	136	136	136	136.5	137.5	137.5	138
7.8	7.9	8.1	8.1	8.2	8.3	8.3	8.3	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.5	8.5	α.υ
408	557	200	221	221	221	221	221	578	578	578	578	578	578	436	434	221	003
N	ب	u	N	N	ν	N	Ν	σ	N	N	ผ	۳	۳	N	۳	N	٨
US-08-683-007A-2	US-08-424-788-6	PCT-US94-14277-4	US-08-943-087-60	US-08-943-087-50	US-08-943-087-56	US-08-943-087-58	US-08-943-087-52	PCT-US93-11638-2	US-08-472-097-2	US-08-477-166-2	US-08-683-743-2	US-08-110-683-2	US-08-424-788-5	US-08-307-588-2	US-08-328-256-11	US-08-943-087-54	US-U8-943-U8/-48
	Sequence 6, Ap	Sequence 4, Ap		Sequence 50, A			Sequence 52, A	Sequence 2, Ap		2,	ν,	Sequence 2, Ap	Sequence 5, Ap	Sequence 2, Ap	•	Sequence 54, App.	sequence 48, A

ALIGNMENTS

CC CC /11 4	Č
** ** ** ** ** ** ** ** ** ** ** ** **	
HYPOTHETICAL: NO	٠.
•••	٠.
'n	٠.
STRANDEDNESS: single	٠.
TYPE: amino acid	٠.
LENGTH: 325 amino acids	٠.
SEQUENCE CHARACTERISTICS:	٠.
INFORMATION FOR SEQ ID NO: 4:	٠.
TELEFAX: 201-343-1684	٠.
TELEPHONE: 201-487-5800	٠.
	٠.
REFERENCE/DOCKET NUMBER: 601-1-050	••
TRATION NUMBER: 26,7	••
NAME: Jackson Esq., David A.	•••
-23	٠.
CLASSIFICATION: 435	٠
FILING DATE: 17-JUL-1996	٠.
APPLICATION NUMBER: US/08/683,743	٠.
LICATION DATA:	٠.
	٠.
ເດ	٠.
COMPUTER: IBM PC compatible	٠.
	٠.
	•••
σ	٠.
Υ.	٠.
	٠.
на	٠.
Floor	٠.
l Hackensack Ave, (••
ADDRESSEE: David A. Jackson, Esq.	•••
33	••
R OF SEQUENCES:	••
OF INVENTION: CHAIN	••
NVENTION:	•••
Kotenko.	••
APPLICANT: Pestka, Sidney	
GENERAL INFORMATION:	٠.
683-743-	US-
RESULT 1	RES

```
Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ъ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Qy
       밁
                                       δ.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Qγ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ş
                                                                                                                                                                            PCT-US94-14277-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PCT-US94-14277-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 8, Application GENERAL INFORMATION:
                                                                              Matches
                                                                                                                 Query Match
                                                                                                                                                                                                                                                                   TELEFAX: 415/952-9881
TELEX: 910/371-7168
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER READABLE FORM:
MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genentech, Inc.
                                                                                                                                                                                                                              SEQUENCE CHARACTERISTICS:
LENGTH: 337 amino acids
                                                                                                                                                                                                                                                                                                                            TELECOMMUNICATION INFORMATION: TELEPHONE: 415/225-5530
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SOFTWARE: patin (Genentech)
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                        ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                          PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/1
FILING DATE: 09-DEC-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Bohni, Ruth APPLICANT: Hemmi, Silvio
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         130
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     233
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  174
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 107 PV--DDTIIGPPGMQVEVLADSL--HMRFLAPKIENEYETWTMKNVYNSWTYNVQYW--K 160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   71
                                       11 IWTSLFMWFFYALIPCLLTDEVAILPAPQNLSVLSTNMKHLLMWSPVIAPGET--VYYSV 68
                                                                                                  Local Similarity
                                                                                                                                                                                              TOPOLOGY:
                                                                                                                                                                                                                  TYPE:
                                                                                                                                                                                                                                                                                                                          TELEPHONE:
                                                                                                                                                                                                                                                                                                                                                               NAME: Love, Richard B.
REGISTRATION NUMBER: 34
REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: PCT/US94/14277 FILING DATE: 07-DEC-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              12
6 LWSLLLLGVFAAAAAAPPDPLSQLPAPQHPKIRLYNAEQVLSWEPVALSNSTRPVVYQV 65
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       3 W-SLGSW----LGGCLLVSALGMVPPPENVRMNSVNFKNILQWESPAFAKG-----NLTF 52
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    QGEYESLYTSHIWIPSSWCSLTEGPECDVTDDITATVPYNLRVRATLGSQTSAW-SILKH 129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WTSLFMWFFYALIPCLLTDEVAILPAPQNLSVLSTNMKHLLMW-SPVIAPGETVYYSVEY 70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SWMVAVILMASV-FMVCLALLGCFSLLWCVYKKTKYAFSPRNSLPQHLK 267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ---LVLALFAFVGFMLILVVVPLF--VWKMGRLLQYSCCPVVVLPDTLK 276
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PGAEEHVKMVRSGGIPVHLETMEPGAAYCVKAQTFVKAIGXYSAFSQTECVE-VQGEAIP 232
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TAQYLSYR----IFQDKCMNTTLTECDFS-SLSKYGDHTLRVRAEFADEHSDWVNITFC 106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NGTDEKFOITPOYDFEV-LRNLEPWTTYCVQVRGFLPDRNKAGEWSEPVCEQTTHDETVP 219
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PFNRNSTILTRPGMEIXKXGFHLVIELEDLGPQFE------FLVAYWXRE 173
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        94080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         F: 460 Point San Bruno
South San Francisco
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Application PC/TUS9414277
                                                                                                                                                                                                              amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Aguet, Michel
                                                                              Conservative
                                                                                                                                                                                              linear
                                                                                              10.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Receptor Subunit Polypeptides
                                                                                                                                                                                                                                                                                                                                                                                                                                                              08/164596
                                                                                                                                                                                                                                                                                                                                                                                   34,659
                                                                              43;
                                                                          Score 176.5; DB 5;
Pred. No. 5.5e-11;
3; Mismatches 123;
                                                                                                                                                                                                                                                                                                                                                                   866PCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Blvd
                                                                                                              Length 337;
                                                                            Indels
                                                                            47;
                                                                        Gaps
                                                                        14;
```

```
δõ
                                      밁
                                                                      δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 3
US-08-328-256-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       맑
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ş
                                                                                                                                                                                                       US-08-328-256-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Patent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 10,
                                                                                                                         Query Match
Best Local Similarity
                                                                                                            Matches
                                                                                                                                                                                                                                                                              TELLEX: 248633
TELEX: 248633
INFORMATION FOR SEQ ID NO: 1
SEQUENCE CHARACTERISTICS:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                         CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/
FILING DATE: 24-OCT-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: IL 107
FILING DATE: 24-OCT-1993
ATTORNEY/AGENT INFORMATION:
NAME: BROWDY, ROGET L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: REVEL, Michel
APPLICANT: ABRAMOVICH, Carolina
APPLICANT: RATOVITSKI, Edward
TITLE OF INVENTION: SOLUBLE INTERFERON ALPHA-RECEPTOR,
TITLE OF INVENTION: PREPARATION AND USE
NUMBER OF SEQUENCES: 12
                                                                                                                                                                                                                                                                                                                                                                 TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-628-5197
TELEFAX: 202-737-3528
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                        MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      234
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             180 W--EKGGIQQVKGPFRSNSI--SLDNLKPSRVYCLQVQAQLLWNKSNIFRVGHLSNIS-- 233
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     122 LHSAWVTMPWFQH--YRNVTVGPPENIEVTPGEGSLIIRFSSPFDIADTSTAFFCYYVHY 179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STREET:
                                      215 YSPVHCIKTTVENELPPPENIEVSVQNQNYVLKW------DYTYANMTFQVQWLHAFLK 267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
 80
                                                                                                                                                                                                                                                         TYPE: amino a STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                          NAME: BROWDY, ROGER L. REGISTRATION NUMBER: F
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MEDIUM TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   69
                                                                        21
                                                                                                                                                                                                                                         TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                            REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      -CYDTMADASTELQQVILISVGTFSLLSVLAGACFFLVLKYRGLIKY 279
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WXREPGAEEHVK-MVRSGGIPVHLETMEPGAAYCVKAQ-----TFVKAIGXYSAFSQT 221
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         QTSAWSIL---KHPFNRNSTILTRPGMEIXKXGFHLVI-----ELEDLGPQFE-FLVAY 169
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             QFKYTDSKWFTADIMSIGVNCTQITATEC----DFTAASPSAGFPMDFNVTLRLRAELGA 121
                                                                      YALIPCLLTDEVAILPAPQNLSVLSTNMKHLLMWSPVIAPGETVYYSVEYQGEYESLYT- 79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ECVEVQGEA-IPLVLALFAFVGFMLILVVVP----LFVWKMGRLLQY 263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                EYQGEYESLYTSHIWIPSSWCSLTEGPECDVTDDITATVP-----YNLRVRATLGS 119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       20004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Washington
-SHIWIPSSWCSLTEGPECDVTDDITATVPYN----
                                                                                                                                                                                                                                                                            amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ), Application US/08328256
5643749
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       D.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       E: BROWDY AND NEIMARK
419 Seventh Street, N.W.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      USA
                                                                                                            Conservative
                                                                                                                                                                                                                                         linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   UMBER: IL 107378
24-OCT-1993
                                                                                                                                                                                                                      protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Floppy disk
                                                                                                                                                                                                                                                           single
                                                                                                                           10.0%; Score 162.5; DB 1; 22.0%; Pred. No. 3.7e-09;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US/08/328,256
                                                                                                                                                                                                                                                                                                                                                                                                                                             REVEL=13
                                                                                                                                                                                                                                                                                                                                   10:
                                                                                                            54;
                                                                                                            Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Suite
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           300
                                                                                                            115;
-LRVRATLGSQTSAWS--
                                                                                                                                              Length
                                                                                                            Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ITS
                                                                                                                                                557;
                                                                                                            83;
                                                                                                          Gaps
                                                                                                            17;
```

17;

```
밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   망
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              equence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               08-471-454-2
                                                                                                                                      INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0,
CURRENT APPLICATION DATA:
-471-454-2
                                                                                                SEQUENCE CHARACTERISTICS:
LENGTH: 557 amino acid
                                                                                                                                                                                                                                                                 ATTORNEY/AGENT INFORMATION: NAME: BYRNE, THOMAS E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TITLE OF INVENTION:
TITLE OF INVENTION:
                                                                                                                                                                                                          TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                            CLASSIFICATION: 435
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CORRESPONDENCE ADDRESS:
ADDRESSEE: NIXON & VANDERHYE P.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               427
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       371
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       480 EYFSEQPLKNLLLSTSEEQIEKC 502
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   224
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           322 IKFDTEIQAFLLPPVFNIRS------LSDSFHIYIGAPKQSGNTPVIQDYPLIYE-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 126
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   :|:: | : |:|:
268 RNPGNHLY---KWKQI---PDCENVKTTQCVFPQNVFQKGIYLLRVQASDGNNTSFWSEE 321
                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: US 07/900,642
FILING DATE: 15-JUN-1992
APPLICATION NUMBER: FR 89/13770
FILING DATE: 20-OCT-1989
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CITY: ARLINGTON
                                           TOPOLOGY:
                                                          STRANDEDNESS:
                                                                                                                                                   TELEFAX: (703) 816-410
TELEX: 200797 NIXN UR
                                                                                                                                                                                       TELEPHONE:
                                                                                                                                                                                                                             REGISTRATION NUMBER: 32,205
REFERENCE/DOCKET NUMBER: 960-7
                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: FILING DATE: 06-JU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     -IIFWENTSNAERKIIEKKT---DVTVPNLKPLTVYCVKARAHTMDEKLNKSSVFSDAVC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LVAYWXREPGAEEHVKMVRSGGIPVHLETMEPGAAYCVKAQ--TFVKAIGXYSAFSQTEC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           EKTKPGNTSKIWL ---- IVGICIALFALPFVIYAAKVFLR--CINYVFFP-SLKPSSSID 479
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               VEVQ-GEAIPLVLALFAFVGFMLILVVVPLFVWKMGRLLQYSCCPVVVLPDTLKITNS--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  22201-4714
                                                                               amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Application US/08471454
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    VIRGINIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1100 NORTH GLEBE ROAD
                                                                                              557 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   U.S.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PQK--LISCRREEVDAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  UZE, Gilles
LUTFALLA, Georges
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GRESSER, Ion
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MOGENSEN, Knud E.
                                               linear
                                                                                                                                                                                           (703) 816-4000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               -ILKHPFNRNSTILTRPGMEIXKXGFHLVI------ELEDLGPQFEF 165
                                                                                                                                                                                                                                                                                                                                                                                                                06-JUN-1995
                                                            single
                                                                                                                                                                          816-4100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CDNA FRAGMENT CODING FOR THE GENE FOR THE ALPHA INTERFERON RECEPTOR AND PROCESS PREPARATION OF THE CORRESPONDING PROTEIN
                                                                                                                                                                                                                                                                                                                                                                                                                                 US/08/471,454
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           295
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     426
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         223
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             370
```

Query Match

10.0%;

Score 162.5;

DB 1;

Length 557;

```
밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Qy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  뫄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    δõ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-08-466-974-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 2, Patent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Best Local Similarity Matches 71; Conserv
                                                                                                                                                           CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/900,642
FILING DATE: 15-JUN-1992
APPLICATION NUMBER: FR 89/13770
FILING DATE: 20-OCT-1989
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GENERAL INFORMATION:
                  INFORMATION FOR SEQ ID NO:
                                                 NAME: BYRNE, THOMAS E.
REGISTRATION NUMBER: 32,205
REFERENCE/DOCKET NUMBER: 960-
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 816-4000
TELEFAX: (703) 816-4100
                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CORRESPONDENCE ADDRESS:
ADDRESSEE: NIXON & VANDERHYE P.C.
STREET: 1100 NORTH GLEBE ROAD
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITLE OF INVENTION:
TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               427
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     371
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             322
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               126
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   268
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           215
                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: FILING DATE: 06-JUI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CITY: ARLINGTON
                                                                                                                                                                                                                                                                                                                                                                                                                                                              COUNTRY: U.S.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          21 YALIPCLLTDEVAILPAPONLSVLSTNMKHLLMWSPVIAPGETVYYSVEYQGEYESLYT-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     -IIFWENTSNAERKIIEKKT---DVTVPNLKPLTVYCVKARAHTMDEKLNKSSVFSDAVC 426
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ----SHIWIPSSWCSLTEGPECDVTDDITATVPYN-----LRVRATLGSQTSAWS-- 125
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       EYFSEQPLKNLLLSTSEEQIEKC 502
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                VEVQ-GEAIPLVLALFAFVGFMLILVVVPLFVWKMGRLLQYSCCPVVVLPDTLKITNS--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LVAYWXREPGAEEHVKMVRSGGIPVHLETMEPGAAYCVKAQ--TFVKAIGXYSAFSQTEC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           IKFDTEIQAFLLPPVFNIRS-----LSDSFHIYIGAPKQSGNTPVIQDYPLIYE-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RNPGNHLY---KWKQI----PDCENVKTTQCVFPQNVFQKGIYLLRVQASDGNNTSFWSEE 321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        -----PQK--LISCRREEVDAC 295
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             EKTKPGNTSKIWL----IVGICIALFALPFVIYAAKVFLR--CINYVFFP-SLKPSSSID 479
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              -----ILKHPFNRNSTILTRPGMEIXKXGFHLVI------ELEDLGPQFEF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         YSPVHCIKTTVENELPPPENIEVSVQNQNYVLKW------DYTYANMTFQVQWLHAFLK 267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2, Application US/08466974
5. 5861258
                                                                                                                                                                                                                                                                                                                                                                                                                                               22201-4714
                                   200797 NIXN UR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   VIRGINIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GRESSER, Ion
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      UZE, Gilles
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MOGENSEN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LUTFALLA, Georges
                                                                                                                                                                                                                                                                                            WMBER: US/08/466,974
06-JUN-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        22.0%; *-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CDNA FRAGMENT CODING FOR THE GENE THE ALPHA INTERFERON RECEPTOR AND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PREPARATION OF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Knud
                                                                                                                                                                                                                                        us 07/900,642
                                                                                                           960-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Pred. No. 3.76
4; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             THE CORRESPONDING PROTEIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                3.7e-09;
.ches 115;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SENE FOR AND PROCESS FOR THE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   83;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               165
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 280
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         223
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             370
```

```
밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     δã
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         망
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; TOPOLOGY: 1i
; MOLECULE TYPE:
US-08-466-974-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-08-471-453-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Patent No. 5886153
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 2,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity
                                                                                                                                                                                                  COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                     TITLE OF INVENTION:
TITLE OF INVENTION:
                                                           CLASSIFICATION: 536
PRIOR APPLICATION NUMBER: US 07/900,64
FILLING DATE: 15-JUN-1992
APPLICATION NUMBER: FR 89/13770
FILLING DATE: 20-OCT-1989
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                   CORRESPONDENCE ADDRESS:
                             ATTORNEY/AGENT INFORMATION:
NAME: BYRNE, THOMAS E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        281
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       224 VEVQ-GEAIPLVLALFAFVGFMLILVVVPLFVWKMGRLLQYSCCPVVVLPDTLKITNS--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           166 LVAYWXREPGAEEHVKMVRSGGIPVHLETMEPGAAYCVKAQ--TFVKAIGXYSAFSQTEC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         215
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  268 RNPGNHLY---KWKQI---PDCENVKTTQCVFPQNVFQKGIYLLRVQASDGNNTSFWSEE 321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      80
                                                                                                                                                                                                                                                                                                                                                                    CITY: ARLINGTON
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  21 YALIPCILTDEVAILPAPQNLSVLSTNMKHLLMWSPVIAPGETVYYSVEYQGEYESLYT-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: amino acid
STRANDEDNESS: sir
                                                                                                                                                                       FILING DATE:
                                                                                                                                                                                                                                                                                                                               COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                  ADDRESSEE:
                                                                                                                                                                                     APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                 ZIP:
                                                                                                                                                                                                                                                                                                                                                                                      STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ------ILKHPFNRNSTILTRPGMEIXKXGFHLVI------ELEDLGPQFEF 165
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     EYFSEQPLKNLLLSTSEEQIEKC 502
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      -----PQK--LISCRREEVDAC 295
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 IKFDTEIQAFLLPPVFNIRS------LSDSFHIYIGAPKQSGNTPVIQDYPLIYE-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ----SHIWIPSSWCSLTEGPECDVTDDITATVPYN-----LRVRATLGSQTSAWS-- 125
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     YSPVHCIKTTVENELPPPENIEVSVQNQNYVLKW------DYTYANMTFQVQWLHAFLK 267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       EKTKPGNTSKIWL----IVGICIALFALPFVIYAAKVFLR--CINYVFFP-SLKPSSSID 479
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          -IIFWENTSNAERKIIEKKT---DVTVPNLKPLTVYCVKARAHTMDEKLNKSSVFSDAVC
                                                                                                                                                                                                                                                                                                                 22201-4714
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Application US/08471453
                                                                                                                                                                                                                                                                                                                                                   VIRGINIA
                                                                                                                                                                                                                                                                                                                                                                                E: NIXON & VANDERHYE I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LUTFALLA, Geo
GRESSER, Ion
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MOGENSEN, Knud E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           UZE, Gilles
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    linear
THOMAS E. 32,205
                                                                                                                                                                     06-JUN-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   single
                                                                                                                                                                                                                                                                                                                                                                                                                                                    CDNA FRAGMENT CODING FOR THE GENE FOR THE ALPHA INTERFERON RECEPTOR AND PROCESS FOR PREPARATION OF THE CORRESPONDING PROTEIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           10.0%; Score 162.5; DB 222.0%; Pred. No. 3.7e-09;
                                                                                                                                                                                                                                                                                                                                                                                                  VANDERHYE P.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Georges
                                                                                                                                                                                     US/08/471,453
                                                                                                                US 07/900,642
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          54;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            115;
                                                                                                                                                                                                                          #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 557;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          426
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            223
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 370
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          17;
```

```
₽
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-08-307-588-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   δð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; MOLECULE TYPE: US-08-471-453-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEPHONE: (703) 816-4000
TELEFAX: (703) 816-4100
TELEX: 200797 NIXN UR
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Patent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches
                                                                                                                                                                                                                                                                                                                                                                                                    GENERAL INFORMAPPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity
           MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/307,588
FILING DATE: 05-DEC-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               REFERENCE/DOCKET NUMBER: 96
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 816-4000
                                                                                                                                                    COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                   CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                     TITLE OF INVENTION: MONOCLONAL ANTIBODIES AGAINST THE INTERFERON TITLE OF INVENTION: RECEPTOR, WITH NEUTRALIZING ACTIVITY AGAINST TYPE TITLE OF INVENTION: INTERFERON NUMBER OF SEQUENCES: 4
                                                                                                                                                                                                                                                                                                                                                                 APPLICANT:
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 480 EYFSEQPLKNLLLSTSEEQIEKC 502
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     371
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     166 LVAYWXREPGAEEHVKMVRSGGIPVHLETMEPGAAYCVKAQ--TFVKAIGXYSAFSQTEC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   126
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    215 YSPVHCIKTTVENELPPPENIEVSVQNQNYVLKW------DYTYANMTFQVQWLHAFLK 267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: amino acid
STRANDEDNESS: sir
TOPOLOGY: linear
                                                                                                                                                                      STATE: D.C.
ZIP: 20007
                                                                                                                                                                                                        CITY: Washington
                                                                                                                                                                                                                                STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     21 YALIPCLLTDEVAILPAPQNLSVLSTNMKHLLMWSPVIAPGETVYYSVEYQGEYESLYT- 79
                                                                                                                                                                                                                                                 ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  4, AP.
No. 5919453
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                -----PQK--LISCRREEVDAC 295
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              VEVQ-GEAIPLVLALFAFVGFMLILVVVPLFVWKMGRLLQYSCCPVVVLPDTLKITNS-- 280
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   - IIFWENTSNAERKIIEKKT---DVTVPNLKPLTVYCVKARAHTMDEKLNKSSVFSDAVC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RNPGNHLY---KWKQI----PDCENVKTTQCVFPQNVFQKGIYLLRVQASDGNNTSFWSEE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ----SHIWIPSSWCSLTEGPECDVTDDITATVPYN------LRVRATLGSQTSAWS-- 125
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EKTKPGNTSKIWL----IVGICIALFALPFVIYAAKVFLR--CINYVFFP-SLKPSSSID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   -----ILKHPFNRNSTILTRPGMEIXKXGFHLVI-----ELEDLGPQFEF 165
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             IKFDTEIQAFLLPPVFNIRS------LSDSFHIYIGAPKQSGNTPVIQDYPLIYE- 370
                                                                                                                                                                                                                                                                                                                                                                                                                                                                INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Application US/08307588
                                                                                                                                                                                                                              E: Foley & Lardner 3000 K Street, N.W.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  557 amino acids
                                                                                                                                                                                                                                                                                                                                                               MAGUIRE, Deborah
PLAVEC, Ivan
TOVEY, Michael G.
                                                                                                                                                                                                                                                                                                                                                                                                                      MEYER, François
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                            BENOIT, Patrick
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             10.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           54; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 162.5; DB 2;
Pred. No. 3.7e-09;
                                                                                                                                                                                                                                Suite
                                                                                                                                                                                                                                500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             115;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 557;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             83;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   426
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       223
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             17;
```

```
US-08-307-588-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                   PCT-US94-14277-2
                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 2, Application PC/TUS9414277 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            uery Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      INFORMATION FOR SEQ ID NO: 4:
                                     COMPUTER READABLE FORM:
MEDIUM TYPE: 5.25 inch, 360 Kb
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: patin (Genentech)
                   SOFTWARE: patin (Genentech)
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                        APPLICANT: Aguet, Michel APPLICANT: Bohni, Ruth APPLICANT: Hemmi, Silvio
                                                                                                                                                                                                                                                                             CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                  TITLE OF INVENTION: Receptor Subunit Polypeptides NUMBER OF SEQUENCES: 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELECOMMUNICATION INFORMATION: TELEPHONE: (202)672-5300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      480 EYFSEQPLKNLLLSTSEEQIEKC 502
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        371 - IIFWENTSNAERKIIEKKT---DYTVPNLKPLTVYCVKARAHTMDEKLNKSSVFSDAVC 426
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         322 IKFDTEIQAFLLPPVFNIRS------LSDSFHIYIGAPKQSGNTPVIQDYPLIYE- 370
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            268 RNPGNHLY---KWKQI---PDCENVKTTQCVFPQNVFQKGIYLLRVQASDGNNTSFWSEE 321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            224 VEVQ-GEAIPLVLALFAFYGFMLILVVVPLFVWKMGRLLQYSCCPVVVLPDTLKITNS-- 280
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               166 LVAYWXREPGAEEHVKMVRSGGIPVHLETMEPGAAYCVKAQ--TFVKAIGXYSAFSQTEC 223
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 215 YSPVHCIKTTVENELPPPENIEVSVQNQNYVLKW------DYTYANMTFQVQWLHAFLK 267
                                                                                                                                                                                       STREET: 460 Point San Bruno Blvd
CITY: South San Francisco
STATE: California
  APPLICATION NUMBER:
                                                                                                                                                                        COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      21 YALIPCLLTDEVAILPAPQNLSVLSTNMKHLLMWSPVIAPGETVYYSVEYQGEYESLYT- 79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TELEFAX:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NAME: SAXE, Bernhard REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: EP 92400902.0 FILING DATE: 31-MAR-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: FILING DATE: 30-MAI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                         ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       EKTKPGNTSKIWL----IVGICIALFALPFVIYAAKVFLR--CINYVFFP-SLKPSSSID 479
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         -----PQK--LISCRREEVDAC 295
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ----SHIWIPSSWCSLTEGPECDVTDDITATVPYN------LRVRATLGSQTSAWS-- 125
                                                                                                                                                    94080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            557 amino acids
                                                                                                                                                                        USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (202)672-5399
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     linear
                                                                                                                                                                                                                                                         Genentech, Inc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Bernhard D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             30-MAR-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                10.0%; Score 162.5; DB 2; 22.0%; Pred. No. 3.7e-09; tive 54; Mismatches 115;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PCT/EP93/00770
  PCT/US94/14277
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          28,665
                                                                                                        360 Kb floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         17283/117/GUPL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 557;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  83;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps •
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               δõ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Qy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   δõ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PCT-US94-14277-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PCT-US94-14277-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 6, Application:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local S
                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Aguet, Mi
APPLICANT: Bohni, Ru
APPLICANT: Hemmi, Si
TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  INFORMATION FOR SEQ ID NO:
PRIOR APPLICATION DATA: APPLICATION NUMBER:
                                                                                                    SOFTWARE: patin (Genentech)
CURRENT APPLICATION DATA:
                                                                                                                                           COMPUTER READABLE FORM:
MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQUENCES: 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE CHARACTERISTICS:
LENGTH: 332 amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REFERENCE/DOCKET NUMBER: 86
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415/225-5530
                                                                                                                                                                                                                                                                                                                                                             CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ATTORNEY/AGENT INFORMATION:
NAME: Love, Richard B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 114 RATLGSQTSAWSILKHPFNRNSTILTRP--GMEIXKXGFHLVIELE---DL--GPQFEFL 166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  228 SCHETTANASARLQQVILIPLGIFALL 254
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            222 ECVEVQGEA-----IPLVLALFAFV 241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 167 VAYWXREPGAEEHVK-MVRSGGIPVHLETMEPGAAYCVKAQTFV----KAIGXYSAFSQT 221
                                                                                                                                                                                                                                                                                              ADDRESSEE: Genentech, Inc.
STREET: 460 Point San Bruno Blvd
CITY: South San Francisco
                                                             APPLICATION NUMBER: FILING DATE: 07-DE
                                         CLASSIFICATION:
                                                                                                                                                                                                                                                       COUNTRY:
                                                                                                                                                                                                                                                                             STATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    17 MWFFYALIPCLL-----TDEVAILPAPQNLSVLSTNMKHLLMWSPVIAPGETVYY 66
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            59 PVVYQVEYS-----FIDGSWHRLLE-PNCTDITETKCDLTGGGRLKLFPHPFTVFLRV 110
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   67 SVEYQGEYESLYTSHIWIPSSWCSLTEGPEC-DVTD---DITA-----TVPYN--LRV 113
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELEPHONE: 415/225-55
TELEFAX: 415/952-9881
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NAME: Love, Richard B REGISTRATION NUMBER: 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE: 0 CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             6 LW-----LPSLLLCGLGAAASSPDSFSQLAAPLNPRLHLYNDEQILTWEP--SPSSNDPR 58
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      VHYWEKSETQQEQVEGPFKSNSIV--LGNLKPYRVYCLQTEAQLILKNKKIRPHGLLSNV 227
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RAKRGNLTSKWVGLE-PFQHYENVTVGPPKNISVTPGKGSLVIHFSPPFDVFHGATFQYL
                                                                                                                                                                                                                                     94080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1: 332 amino acids amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Application PC/TUS9414277
                                                                                                                                                                                                                                                                             California
                                                                                                                                                                                                                                                                                                                                                                                                                           Hemmi, Silvio
                                                                                                                                                                                                                                                         USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            09-DEC-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           07-DEC-1994
                                                               07-DEC-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Michel
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ruth
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    9.6%; Score 157; DB 5;
27.0%; Pred. No. 6.9e-09;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             08/164596
08/164596
                                                                                   PCT/US94/14277
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          34,659
```

34; Mismatches

Length 332; Indels

Gaps

17;

866PCT

밁 δõ 밁 Ş Вb δõ 밁 Š 밁 Š 밁 Š

ATTORNEY/AGENT INFORMATION:

34,659

09-DEC-1993

```
Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 10
US-08-943-087-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Patent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 2,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                tches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELECOMMUNICATION INFORMATION: TELEPHONE: 415/225-5530
                                                 PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/803,305
FILING DATE: 20-FEB-1997
                                                                                                                                                  OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                             NUMBER OF SEQUENCES: (CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Whitmore, Theodore E.
APPLICANT: Farrah, Theresa M.
TITLE OF INVENTION: CYTOKINE RECEPTOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE CHARACTERISTICS:
               ATTORNEY/AGENT INFORMATION:
NAME: Lunn, Paul G
                                                                                                                                                                                                                                       COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      174 V--LGNLKPYRVYCLQTERQLILKNKKIRPHGLLSNVSCHETTANA 217
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      189 PVHLETMEPGAAYCVKAQTFV----KAIGXYSAFSQTECVEVQGEA 230
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      114 VTVGPPKNISVTPGKGSLVIHFSPPFDVFHGATFQYLVHYWEKSETQQEQVEGPFKSNSI 173
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELEPHONE: 415/2-9881
                                                                                                                                                                                                       COMPUTER:
                                                                                                                                                                                                                     MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             56
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              90 SLTEGPEC-DVTD---DITA-----TVPYN--LRVRATLGSQTSAWSILKHPFNRNST 136
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME: Love, Richard B. REGISTRATION NUMBER: 34, REFERENCE/DOCKET NUMBER:
                                                                                                  CLASSIFICATION: 536
                                                                                                                      FILING DATE:
                                                                                                                                    APPLICATION NUMBER:
                                                                                                                                                                                                                                                                          COUNTRY:
                                                                                                                                                                                                                                                                                                                                             ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          30 DEVAILPAPQNLSVLSTNMKHLLMWSPVIAPGETVYYSVEYQGEYESLYTSHIWIPSSWC 89
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           5 DSFSQLARPLNPRLHLYNDEQILTWEP--SPSSNDPRPVVYQVEYS-----FIDGSWH 55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ILTRP--GMEIXKXGFHLVIELE---DL--GPQFEFLVAYWXREPGAEEHVK-MVRSGGI 188
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RLLE-PNCTDITETKCDLTGGGRLKLFPHPFTVFLRVRAKRGNLTSKWVGLE-PFQHYEN 113
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              63;
                                                                                                                                                                                                                                                            98102
                                                                                                                                                                                                                                                                                                          Seattle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Application US/08943087
                                                                                                                                                                                                                                                                                          WA
                                                                                                                                                                                                                                                                                                                            E: ZymoGenetics, Inc.
1201 Eastlake Avenue East
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 223 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Lok, Si
Kho, Choon J.
                                                                                                                                                                                                                                                                          USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Jelmberg, Anna C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                Adams, Robyn L.
                                                                                                                                                                                                    IBM Compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   linear
NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              9.0%;
                                                                                                                                    US/08/943,087
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                29;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       866PCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 146; DB 5
Pred. No. 6e-08;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DB 5; Length 223;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                96;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              38;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              14;
```

```
Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          δõ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-08-943-087-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-08-943-087-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 14, Application US/08943087 Patent No. 5945511
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GENERAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: I
APPLICANT: I
APPLICANT: 1
              CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                               SOFTWARE: FastSEQ for Windows Version CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/943,087
                                                                                                                                                                    COMPUTER READABLE FORM:
MEDIUM TYPE: Diskett
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REFERENCE/DOCKET NUMBER: 96
TELECOMMUNICATION INFORMATION:
TELEPHONE: 206-442-6627
                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MOLECULE TYPE: FRAGMENT TYPE:
                                                                                                                                                                                                                                                                                                               CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                                                                  NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Farrah, Theresa M.
TITLE OF INVENTION: CYTOKINE RECEPTOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 249 AKIIFWYVLPISITVFLF 266
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    198 VTNHTLV-----LTWLEPNTLYCVHVESFVPGPPRRAQPSEKQCARTLKDQSSEFK 248
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  176 AEEHVKMVRSGGIPVHLETMEPGAAYCVKAQTFVKAIGXYSAFSQTECVEVQGE-----
                                                                                                                              COMPUTER: IBM CON
OPERATING SYSTEM:
                                                                  FILING DATE:
                                                                                                                                                                                                                                             STATE:
                                                                                                                                                                                                                                                               CITY:
                                                                                                                                                                                                                                                                           STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               24 IPCLLTDEVAILPAPQNLSVLSTNMKHLLMWSPVIA-PGETVYYSVEYQGEYESLYTSHI 82
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Match 8.5%;
Local Similarity 21.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEFAX: 206-442-6678
                                                                                                                                                                                                                       COUNTRY:
                                                                                                                                                                                                                                                                             ADDRESSEE: ZymoGenetics, Inc. STREET: 1201 Eastlake Avenue East
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EVALITIDEKSISVVLTAP-EKWKRNPEDLPVSMQQIYSNLKYNVSVLNTKSNRTWSQ--C 197
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WLNKSECRNINRTYCDLSAETSDYEHQYYAKVKAIWGTKCSKWAESGRFYPFLETQIGPP 140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WIPSSWCSLTEGPECDVTDDIT-ATVPYNLRVRATLGSQTSAW--SILKHPFNRN----- 134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              VPCVSGG-----EPKPANITFLSINMKNVLQWTPPEGLQGVKVTYTVQY-----FIYGQKK 80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ------AIPLVLALFAF 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         INFORMATION:
                                                                                                                                                                                                            98102
                                                                                                                                                                                                                                                           Seattle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        amino acid
                                                                                                                                                                                                                                           WA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          553 amino acids
                                                                                                                                                                                                                            USA
                                                                                                                                                                                                                                                                                                                                                                                                                                     Lok, Si
Kho, Choon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                    Whitmore,
                                                                                                                                                                                                                                                                                                                                                                                                     Jelmberg, Anna C. Adams, Robyn L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           linear
                                                                                                                                                    IBM Compatible
                                                                                                                                                                      Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       protein
internal
20-FEB-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         single
                                                                                                                                       Sod
                                                                                                                                                                                                                                                                                                                                                                                      Theodore E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   43; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 138; DB 2;
Pred. No. 1.7e-06;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   96-24C1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 98; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 553;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 62;
```

11;

ATTORNEY/AGENT INFORMATION:

REGISTRATION NUMBER:

32,743

Lunn,

Paul G

```
Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  멍
                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 12
US-08-943-087-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 멍
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               δõ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; MOLECULE TYPE:
; FRAGMENT TYPE:
US-08-943-087-14
                                                                                                                                                                                                                                                                                                                                                                                                                Patent No.
                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 16, Application US/08943087 Patent No. 5945511
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
                                                                                                                                                                                                                                                                                                                                                                               GENERAL INFORMATION:
APPLICANT: Lok, S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   atches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS: LENGTH: 553 amino acid
                                            COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: Fast-SEQ for Windows Version
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                             APPLICANT: FAIRAH, Theresa M.
TITLE OF INVENTION: CYTOKINE RECEPTOR
NUMBER OF SEQUENCES: 60
                                                                                                                                                                                                                                                                                                APPLICANT:
                                                                                                                                COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                  CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                   APPLICANT:
                                                                                                                                                                                                                                                                                                                                                APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                 APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELECOMMUNICATION INFORMATION: TELEPHONE: 206-442-6627
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 249 AKIIFWYVLPISITVFLF 266
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  230 -----AIPLVLALFAF 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               176 AEEHVKMVRSGGIPVHLETMEPGAAYCVKAQTFVKAIGXYSAFSQTECVEVQGE----- 229
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 141 EVALTTDEKSISVVLTAP-EKWKRNPEDLPVSMQQIYSNLKYNVSVLNTKSNRTWSQ--C 197
                                                                                                                                                                                               STREET: 1201 | CITY: Seattle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            83 WIPSSWCSLTEGPECDVTDDIT-ATVPYNLRVRATLGSQTSAW--SILKHPFNRN----- 134
CLASSIFICATION: 536
               APPLICATION NUMBER: FILING DATE:
                                                                                                               MEDIUM TYPE: Diskette
                                                                                                                                                                COUNTRY:
                                                                                                                                                                                   STATE:
                                                                                                                                                                                                              ADDRESSEE: ZymoGenetics, Inc.
STREET: 1201 Eastlake Avenue East
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                30 VPCVSGG-----LPKPANITFLSINMKNVLQWTPPEGLQGVKVTYTVQY-----FIYGQKK 80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STRANDEDNESS:
TOPOLOGY: lir
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELEFAX:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELEPHONE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WLNKSECRNINRTYCDLSAETSDYEHQYYAKVKAIWGTKCSKWAESGRFYPFLETQIGPP 140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              -----STILTRPGMEIXKXGFHLVIELEDLGPQFEFLVAY------WXREPG 175
                                                                                                                                                 98102
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  amino acid
                                                                                                                                                                                 WA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               553 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    206-442-6678
                                                                                                                                                                                                                                                                                                                                                              Lok, Si
Kho, Choon J.
                                                                                                                                                                  USA
                                                                                                                                                                                                                                                                                                                              Jelmberg, Anna C.
Adams, Robyn L.
                                                                                                                                                                                                                                                                                                              Whitmore,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                -----LTWLEPNTLYCVHVESFVPGPPRRAQPSEKQCARTLKDQSSEFK 248
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8.5%;
                              US/08/943,087
                                                                                                                                                                                                                                                                                                                Theodore E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 43;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   96-24C1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 138; DB 2;
Pred. No. 1.7e-06;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 98;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 553;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 62;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 11;
```

```
밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   QΥ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          QΥ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Вþ
                                                                                                                                                                                                                                                                                                                                                                                                                                      US-08-943-087-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-08-943-087-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity
Matches 55; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                  Patent No.
                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 18,
                                                                                                                                                                                                                                                                                                                                                                                   GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                           APPLICANT: Whitmore, Theodore E.
APPLICANT: Farrah, Theresa M.
TITLE OF INVENTION: CYTOKINE RECEPTOR
NUMBER OF SEQUENCES: 60
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                          APPLICANT:
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version
CURRENT APPLICATION DATA:
                                                    COMPUTER READABLE FORM:
MEDIUM TYPE: Diskett
COMPUTER: IBM Compat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                REFERENCE/DOCKET NUMBER: 96
TELECOMMUNICATION INFORMATION:
TELEPHONE: 206-442-6627
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE: 20-FEB-1997
ATTORNEY/AGENT INFORMATION:
NAME: Lunn, Paul G
                                                                                                                                                                                                                                                                                                                                              APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MOLECULE TYPE:
FRAGMENT TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            249 AKIIFWYVLPISITVFLF 266
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  198 VTNHTLV-----LTWLEPNTLYCVHVESFVPGPPRRAQPSEKQCARTLKDQSSEFK 248
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              135
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       141 EVALTTDEKSISVVLTAP-EKWKRNPEDLPVSMQQIYSNLKYNVSVLNTKSNRTWSQ--C 197
                                 COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
                                                                                                                                                              CITY: Seattle
                                                                                                                                                                                 STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STRANDEDNESS: sin
                                                                                                            ZIF: 98102
                                                                                                                             COUNTRY:
                                                                                                                                               STATE:
                                                                                                                                                                                                     ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               83 WIPSSWCSLTEGPECDVTDDIT-ATVPYNLRVRATLGSQTSAW--SILKHPFNRN----- 134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     30 VPCVSGG----LPKPANITFLSINMKNVLQWTPPEGLQGVKVTYTVQY-----FIYGQKK 80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    24 IPCLLTDEVAILPAPQNLSVLSTNMKHLLMWSPVIA-PGETVYYSVEYQGEYESLYTSHI 82
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELEX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEFAX: 206-442-6678
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WLNKSECRNINRTYCDLSAETSDYEHQYYAKVKAIWGTKCSKWAESGRFYPFLETQIGPP 140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                -----AIPLVLALFAF 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AEEHVKMVRSGGIPVHLETMEPGAAYCVKAQTFVKAIGXYSAFSQTECVEVQGE-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          -----STILTRPGMEIXKXGFHLVIELEDLGPQFEFLVAY------WXREPG 175
                                                                                                                                                                                                                                                                                                                                                                                                      3, Application US/08943087 5945511
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1: 553 amino acids amino acid
                                                                                                                                               WA
                                                                                                                                                                               1201 Eastlake Avenue
                                                                                                                              USA
                                                                                                                                                                                                                                                                                                                         Lok, Si
Kho, Choon J.
Jelmberg, Anna C.
                                                                                                                                                                                                                                                                                                            Adams, Robyn L
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                    ZymoGenetics,
                                                                      Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  interna.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8.5%; Score 138; DB 2;
21.3%; Pred. No. 1.7e-06;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             08/803,305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    32,743
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          43; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       96-24C1
                                                                                                                                                                                   East
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 553;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
```

11;

```
밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         망
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MOLECULE TYPE: FRAGMENT TYPE: US-08-943-087-18
                                                                                                                                                                                                                                                                                                                                                                                 US-08-943-087-20
                                                                                                                                                                                                                                                                                                                      Patent No. 5945511
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                             Sequence 20,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                INFORMATION FOR SEQ ID NO:
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REGISTRATION NUMBER: 32,743
REFERENCE/DOCKET NUMBER: 96
TELECOMMUNICATION INFORMATION:
TELEPHONE: 206-442-6627
                                                                                                                                                             NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                       APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE CHARACTERISTICS:
LENGTH: 553 amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILING DATE: 20-FEB-1997
ATTORNEY/AGENT INFORMATION:
NAME: Lunn, Paul G
                                                                                                                                                                                              APPLICANT: Farrah, Theresa M.
TITLE OF INVENTION: CYTOKINE RECEPTOR
                                                                                                                                                                                                                                                                      APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR APPLICATION DATA:
                                                     COUNTRY: US
ZIP: 98102
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        198 VTNHTLV------LTWLEPNTLYCVHVESFVPGPPRRAQPSEKQCARTLKDQSSEFK 248
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          141 EVALTTDEKSISVVLTAP-EKWKRNPEDLPVSMQQIYSNLKYNVSVLNTKSNRTWSQ--C 197
                                                                                                                                                                                                                                                                                                                                                                                                                                                    249 AKIIFWYVLPISITVFLF 266
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: amino acid
STRANDEDNESS: sir
TOPOLOGY: linear
                                                                                                              CITY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      83
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: 08/8 FILING DATE: 20-FEB-1997
                                                                                              STATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         24 IPCLLTDEVAILPAPQNLSVLSTNMKHLLMWSPVIA-PGETVYYSVEYGGEYESLYTSHI 82 :||: || || ||:|:| || || ||:|:|
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELEFAX: 206-442-6678
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: FILING DATE:
                                                                                                                                              ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AEEHVKMVRSGGIPVHLETMEPGAAYCVKAQTFVKAIGXYSAFSQTECVEVQGE-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     VPCVSGG----LPKPANITFLSINMKNVLQWTPPEGLQGVKVTYTVQY-----FIYGQKK 80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       -----AIPLVLALFAF 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WINKSECRNINRTYCDLSAETSDYEHQYYAKVKAIWGTKCSKWAESGRFYPFLETQIGPP 140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WIPSSWCSLTEGPECDVTDDIT-ATVPYNLRVRATLGSQTSAW--SILKHPFNRN---- 134
                                                                                                           Seattle
                                                                                          WA
                                                                                                                                                                                                                                                                                                                                                               Application US/08943087
                                                                                                                           E: ZymoGenetics, Inc.
1201 Eastlake Avenue East
                                                                                                                                                                                                                               Jelmberg, Anna (Adams, Robyn L. Whitmore, Theodo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          553 amino acids
                                                                         USA
                                                                                                                                                                                                                                                                                   Lok, Si
Kho, Choon J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ---STILTRPGMEIXKXGFHLVIELEDLGPQFEFLVAY-----WXREPG 175
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8.5%; Score 138; DB 2; 21.3%; Pred. No. 1.7e-06;
                                                                                                                                                                                                                                                                        Anna C.
                                                                                                                                                                                                                                   Theodore E.
                                                                                                                                                                                 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              08/803,305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US/08/943,087
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           43; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       96-24C1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 553;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           62;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           11;
```

```
RESULT 15
US-08-943-087-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               QΥ
                                                                                                                                                                                                                                                                                                                                                                                                                     Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                          밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Qy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-08-943-087-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Best Loc
Matches
                                                                                                                                                                                                                                                                               Patent No.
                                                                                                                                                                                                                                                                                                Sequence 22,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/803,305
FILING DATE: 20-FEB-1997
ATTORNEY/AGENT INFORMATION:
NAME: Lunn, Paul G
RECISTRATION NUMBER: 32,743
REFERENCE/DOCKET NUMBER: 96-24C1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 206-442-6627
                                                                                                                                                                                                                                                             GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS: LENGTH: 553 amino acid
                                                                                                                                                      APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                       APPLICANT:
                                                                                                APPLICANT: Whitmore, Theodore E.
APPLICANT: Farrah, Theresa M.
TITLE OF INVENTION: CYTOKINE RECEPTOR
NUMBER OF SEQUENCES: 60
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MOLECULE TYPE: FRAGMENT TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CURRENT APPLICATION DATA:
APPLICATION NUMBER: US
FILING DATE:
                                  STREET: 120-
CITY: Seattle
                                                                                                                                                                                                                                                                                                                                                                                                                       230
                                                                                                                                                                                                                                                                                                                                                                                   249 AKIIFWYVLPISITVFLF 266
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           141 EVALTTDEKSISVVLTAP-EKWKRNPEDLPVSMQQIYSNLKYNVSVLNTKSNRTWSQ--C 197
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 30 VPCVSGG----EPKPANITELSINMKNVLQWTPPEGLQGVKVTYTVQY----FIYGQKK 80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: amino acid
STRANDEDNESS: sir
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     OPERATING SYSTEM:
SOFTWARE: FastSE
                COUNTRY:
                              STATE: WA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   24 IPCLLTDEVAILPAPQNLSVLSTNMKHLLMWSPVIA-PGETVYYSVEYQGEYESLYTSHI 82 :||: | | | | :|:| :| :| :|
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELEFAX:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CLASSIFICATION:
                                                                                   ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                       -----AIPLVLALFAF 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                          VTNHTLV---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AEEHVKMVRSGGIPVHLETMEPGAAYCVKAQTFVKAIGXYSAFSQTECVEVQGE----- 229
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WINKSECRNINRTYCDLSAETSDYEHQYYAKVKAIWGTKCSKWAESGRFYPFLETQIGPP 140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WIPSSWCSLTEGPECDVTDDIT-ATVPYNLRVRATLGSQTSAW--SILKHPFNRN----- 134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            -----STILTRPGMEIXKXGFHLVIELEDLGPQFEFLVAY-----WXREPG 175
                                                                                                                                                                                                                                                                          2, Application 5945511
98102
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Similarity
                                                               1201 Eastlake Avenue East
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               553 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       206-442-6678
                USA
                                                                                                                                                                                     Jelmberg, Anna C.
Adams, Robyn L.
                                                                                                                                                                                                                         Lok, Si
Kho, Choon J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SYSTEM: DOS
FastSEQ for Windows Version 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                linear
                                                                                   ZymoGenetics, Inc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8.5%; Score 138; DB 2;
21.3%; Pred. No. 1.7e-06;
                                                                                                                                                                                                                                                                                                                                                                                                                                                        -LTWLEPNTLYCVHVESFVPGPPRRAQPSEKQCARTLKDQSSEFK 248
                                                                                                                                                                                                                                                                                                US/08943087
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US/08/943,087
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        43;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            96-24C1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 553;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
```

```
; MOLECULE TYPE: FRAGMENT TYPE: US-08-943-087-22
Search completed: October 12, 2001, 16:10:15 Job time: 112 sec
                                                                                                                                                                                                                                                         밁
                                                                                                                                                                                                                                                                                            Ş
                                                                                                                                                                                                                                                                                                                                    В
                                                                                                                                                                                                                                                                                                                                                                       Q
                                                                                                                                                                                                                                                                                                                                                                                                                 В
                                                                                                                                                                                                                                                                                                                                                                                                                                                    ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   INFORMATION FOR SEQ ID NO: 22
SEQUENCE CHARACTERISTICS:
LENGTH: 553 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 8.5%; Score 138; DB 2; Length 553; Best Local Similarity 21.3%; Pred. No. 1.7e-06; Matches 55; Conservative 43; Mismatches 98; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/803,305
FILING DATE: 20-FEB-1997
ATTORNEY/AGENT INFORMATION:
NAME: LUDD, Paul G
REGISTRATION NUMBER: 32,743
REFERENCE/DOCKET NUMBER: 96-24C1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 206-442-6627
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                       141 EVALTTDEKSISVVLTAP-EKWKRNPEDLPVSMQQIYSNLKYNVSVLNTKSNRTWSQ--C 197
                                                                                               249 AKIIFWYVLPISITVFLF 266
                                                                                                                                                                              198 VTNHTLV-----LTWLEPNTLYCVHVESFVPGPPRRAQPSEKQCARTLKDQSSEFK 248
                                                                                                                                                                                                                 176 AEEHVKMVRSGGIPVHLETMEPGAAYCVKAQTFVKAIGXYSAFSQTECVEVQGE-----
                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: US/08/943,087 FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEFAX: 206-442-6678
                                                                                                                         -----AIPLVLALFAF 240
                                                                                                                                                                                                                                                                                          -----STILTRPGMEIXKXGFHLVIELEDLGPQFEFLVAY------WXREPG 175
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              protein
internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      22:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     96-24C1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels 62; Gaps
                                                                                                                                                                                                                   229
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            11;
```

```
Animum DB
Maximum DB
                                                                                                                                                                                                                                                   Result
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 s
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Run
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Database
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         OM protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  otal number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                   No.
   5
6
7
8
9
10
                                                                                                                                                                                                                                                                                                                                and
                                                                                                                                                                                                                                                                                                                                               score greater
                                                                                                                                                                                                                                                                                                                                                                     Pred. No.
                                                                                                                                                                                                                                   Score
                                                                                                                                                                                                                                                                                                                                is
 seq
                                                                                                                                                                                                                                                                                                                                derived
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     protein search, using
                                                                                                                                                                                                                                                                                                                                                                                             A_Geneseq_0601:*

1: /SIDS8/gcgdata/geneseq/geneseqp/AA1980.DAT:*
2: /SIDS8/gcgdata/geneseq/geneseqp/AA1981.DAT:*
3: /SIDS8/gcgdata/geneseq/geneseqp/AA1982.DAT:*
4: /SIDS8/gcgdata/geneseq/geneseqp/AA1983.DAT:*
5: /SIDS8/gcgdata/geneseq/geneseqp/AA1984.DAT:*
6: /SIDS8/gcgdata/geneseq/geneseqp/AA1985.DAT:*
7: /SIDS8/gcgdata/geneseq/geneseqp/AA1985.DAT:*
8: /SIDS8/gcgdata/geneseq/geneseqp/AA1989.DAT:*
9: /SIDS8/gcgdata/geneseq/geneseqp/AA1989.DAT:*
10: /SIDS8/gcgdata/geneseq/geneseqp/AA1990.DAT:*
11: /SIDS8/gcgdata/geneseq/geneseqp/AA1991.DAT:*
12: /SIDS8/gcgdata/geneseq/geneseqp/AA1991.DAT:*
13: /SIDS8/gcgdata/geneseq/geneseqp/AA1991.DAT:*
14: /SIDS8/gcgdata/geneseq/geneseqp/AA1992.DAT:*
15: /SIDS8/gcgdata/geneseq/geneseqp/AA1993.DAT:*
16: /SIDS8/gcgdata/geneseq/geneseqp/AA1995.DAT:*
17: /SIDS8/gcgdata/geneseq/geneseqp/AA1995.DAT:*
18: /SIDS8/gcgdata/geneseq/geneseqp/AA1995.DAT:*
18: /SIDS8/gcgdata/geneseq/geneseqp/AA1997.DAT:*
20: /SIDS8/gcgdata/geneseq/geneseqp/AA1999.DAT:*
21: /SIDS8/gcgdata/geneseq/geneseqp/AA1999.DAT:*
22: /SIDS8/gcgdata/geneseq/geneseqp/AA1999.DAT:*
23: /SIDS8/gcgdata/geneseq/geneseqp/AA1999.DAT:*
24: /SIDS8/gcgdata/geneseq/geneseqp/AA1999.DAT:*
25: /SIDS8/gcgdata/geneseq/geneseqp/AA1999.DAT:*
26: /SIDS8/gcgdata/geneseq/geneseqp/AA1999.DAT:*
27: /SIDS8/gcgdata/geneseq/geneseqp/AA1999.DAT:*
28: /SIDS8/gcgdata/geneseq/geneseqp/AA1999.DAT:*
29: /SIDS8/gcgdata/geneseq/geneseqp/AA1999.DAT:*
20: /SIDS8/gcgdata/geneseq/geneseqp/AA1999.DAT:*
21: /SIDS8/gcgdata/geneseq/geneseqp/AA1999.DAT:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           length:
length:
                                                                                                                                                                                                                               %
Query
Match
                                                                                                                                                                                                                                                                                                                            is the number of results predicted by ater than or equal to the score of the rived by analysis of the total score di
 99.6
99.6
99.6
99.6
99.6
99.6
99.5
111.7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        412676 seqs, 60623988 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BLOSUM62
Gapop 10.0 ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-09-265-540E-2
1627
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    October 12, 2001, 16:06:48;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GenCore version Copyright (c) 1993 - 2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MQTFTMVLEEIWTSLFMWFF......VDACATAVMSPEELLRAWIS
                                                                                                                                                                                                                                   Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0
20000000000
                                                                                                                                                                                                                                   В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gapext 0.5
                                   AAY44664
AAY66676
AAB65199
AAY39472
AAY97048
                                                                                                                                                                                                                                   ij
                                                                                                                                                                       AAY41736
AAB44292
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     summaries
                   AAG03609
                                                                                                                                   AAY97046
                                                                                                                                                         AAB33440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       sw model
                                                                                                                                                                                                                                                                                        SUMMARIES
                                                                                                                                                                                            0496
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Compugen
                                                                                                                                                                                                                                                                                                                              score distribution
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Search time 20.8 Seconds (without alignments) 906.445 Million cell upd
                                                                                                                                                                                                                                                                                                                                        chance to have a result being printed,
                                                     Interferon Recepto Membrane-bound pro Human PRO1114 (UNQ DNAX interferon-li
                                                                                                                                                                                                                              Description
                                                                                                                               Human PRO1114 |
Human PRO1114 |
Human PRO1114 |
Human TANGO 242
                                       Murine TANGO 242.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               cell updates/sec
protein.
                 secreted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      311
                                                                                                                                 14 prot
242.
                                                                                                                                                                       (UNQ
```

ALIGNMENTS

RESULT AAY41736

07-DEC-1999

(first entry)

AAY41736;

AAY41736 standard; Protein;

311

A

Human PRO1114 protein sequence

10 - MAR - 1998 11 - MAR - 1998 11 - MAR - 1998 11 - MAR - 1998 12 - MAR - 1998 13 - MAR - 1998 17 - MAR - 1998 20 - MAR - 1998 Human;
probe; 08-MAR-1999; 16-SEP-1999 WO9946281-A2 Homo sapiens secreted protein; PRO; EST; expressed sequence tag; PCR primer; hybridisation; blood coagulation disorder; cancer; cellular adhesion disorder; 98US-0077450. 98US-0077631. 98US-007764. 98US-007764. 98US-0077791. 98US-0078094. 98US-0040220. 98US-0078816. 98US-00789310. 98US-0078939. 98US-0078939. 99WO-US05028 transmembrane protein.

```
\( \bar{c} \) \(
    31-MAR-1998
01-APR-1998
01-APR-1998
01-APR-1998
01-APR-1998
08-APR-1998
08-APR-1998
09-APR-1998
09-APR-1998
15-APR-1998
15-APR-1998
15-APR-1998
21-APR-1998
21-APR-1998
22-APR-1998
22-APR-1998
22-APR-1998
23-APR-1998
23-APR-1998
23-APR-1998
29-APR-1998
29-APR-1998
29-APR-1998
29-APR-1998
29-APR-1998
30-APR-1998
30-APR-1998
005-MAY-1998
006-MAY-1998
007-MAY-1998
007-MAY-1998
007-MAY-1998
007-MAY-1998
007-MAY-1998
107-MAY-1998
107-MAY-1998
113-MAY-1998
113-MAY-1998
113-MAY-1998
115-MAY-1998
9805-0081195.
9805-0081293.
9805-0081838.
9805-0081838.
9805-008269.
9805-0082700.
9805-0082700.
9805-0082767.
9805-008284.
9805-0083333.
9805-008349.
9805-0083554.
9805-0083554.
9805-0083554.
9805-0083742.
9805-0083742.
9805-0084441.
9805-0084641.
9805-0084639.
9805-0084639.
9805-0084583.
9805-0084639.
9805-0084639.
9805-0084639.
9805-0084639.
9805-0084639.
9805-0084639.
9805-0084639.
9805-0084639.
9805-0084639.
9805-0084639.
9805-0084639.
9805-0084639.
9805-0084639.
9805-0084639.
9805-0084639.
9805-00866333.
9805-00866333.
9805-0086633.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             98US-0080194
98US-0080327
98US-0080338
98US-0080333
98US-0080334
98US-0081070
98US-0081070
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      98US-0080105.
98US-0080107.
98US-0080165.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               98US-0079728.
98US-0079786.
98US-0079920.
98US-0079923.
```

Š

밁

301

08-FEB-2001 AAB44292;

(first entry)

expressed sequence tag; detection; cancer.

Human; secreted protein; transmembrane protein; PRO; EST;

Human PRO1114 (UNQ557) protein sequence SEQ ID

NO:352

cytostatic;

AAB44292

AAB44292 standard; Protein;

311

Ŗ

RESULT

N

```
밁
                                                                          Qγ
                                                                                                      밁
                                                                                                                           QY
                                                                                                                                                       밁
                                                                                                                                                                             Ş
                                                                                                                                                                                                         밁
                                                                                                                                                                                                                                δõ
                                                                                                                                                                                                                                                         밁
                                                                                                                                                                                                                                                                                δÃ
                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity
Matches 307; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      28-MAY-1998;
30-JUL-1998;
11-SEP-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                       and their polynucleotides. The nucleotide sequences are useful as sources of probes, primers, for chromosome mapping, and for generatic of antisense sequences. They can also be used to create transgenic animals. The proteins can be used to treat a variety of diseases and disorders, depending on their function. Diseases that may be treated include blood coagulation disorders, cancers and cellular adhesion disorders. They may also be used to raise antibodies. AAZ33891 to AAZ3438, and AAY41685 to AAY41774 represent polynucleotide and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New secreted and transmembrane polypeptides and their polynucleotides, useful for treating blood coagulation disorders, cancers and cellular adhesion disorders -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mood
                                                                                                                                                                                                                                                                                                                                                                          Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 12; Fig 142; 530pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 N-PSDB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (GETH ) GENENTECH INC.
                                                                                                                                                                                                                                                                                                                                                                                                               polypeptide sequence given in the exemplification of the present
                          301
                                                   241
                                                                             241
                                                                                                      181
                                                                                                                               181
                                                                                                                                                       121
                                                                                                                                                                                121
                                                                                                                                                                                                        61
                                                                                                                                                                                                                                 61
                                                                                                                                                                                                                                                                                  ب
1 SPEELLRAWIS 311
||||||||||
1 speellrawis 311
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WI,
                                                                                                                                                                                                     1999-551358/46.
DB; AAZ34190.
                                                                 VGFMLILVVVPLFVWKMGRLLQYSCCPVVVLPDTLKITNSPQKLISCRREEVDACATAVM
                                                                                                  KMVRSGGIPVHLETMEPGAAYCVKAQTFVKAIGXYSAFSQTECVEVQGEAIPLVLALFAF
                                                                                                                                                    TSAWSILKHPFNRNSTILTRPGMEIXKXGFHLVIELEDLGPQFEFLVAYWXREPGAEEHV 180
                                                                                                                                                                                                                                                       mqtftmvlee1wtslfmwffya1ipclltdeva11papqnlsvlstnmkhllmwspviap
                                                                                                                                                                                                                                                                                  MQTFTMVLEEIWTSLEMWFFYALIPCLLTDEVAILPAPQNLSVLSTNMKHLLMWSPVIAP
                                                   vgfmlilvvvplfvwkmgrllqysccpvvvlpdtlkitnspqkliscrreevdacatavm
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Goddard A,
                                                                                                                                                                                                                                                                                                                                                                          311
                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      98US-0087208.
98US-0094651.
98US-0100038.
                                                                                                                                                                                                                                                                                                                                                                          Ä,
                                                                                                                                                                                                                                                                                                                      99.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             describes secreted and transmembrane polypeptides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gurney
                                                                                                                                                                                                                                                                                                          Score 1620; D
Pred. No. 6.5e
0; Mismatches
                                                                                                                                                                                                                                                                                                            0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Α,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Yuan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ľ,
                                                                                                                                                                                                                                                                                                            DB 20;
.5e-164;
les 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Baker
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        χP,
                                                                                                                                                                                                                                                                                                                                    Length
                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Chen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    for generation
                                                                                                                                                                                                                                                                                                            0
                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                            240
                                                                                                       240
                                                                                                                                                                                                        120
                                                                                                                                                                                                                                 120
                                                                                                                                                                                                                                                         60
                                                                                                                                                                                                                                                                                  60
                                                     300
                                                                             300
```

0

```
88888888
Ş
                          밁
                                                   Š
                                                                                밁
                                                                                                         Ş
                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity
Matches 307; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  29-OCT-1999
30-NOV-1999
02-DEC-1999
02-DEC-1999
16-DEC-1999
30-DEC-1999
30-DEC-1999
30-DEC-1999
05-JAN-2000
06-JAN-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ashkenazi AJ
Ferrara N,
Goddard A,
Kljavin IJ,
Shelton DL,
                                                                                                                                                                                                                             AAC78458 to AAC78599 represent polynucleotide and EST (expressed sequence tag) sequences which encode secreted or transmembrane PRO polypeptides. The PRO polynucleotides and polypeptides have cytostatic activity. The polynucleotides and polypeptides can be used for detecting the presence of PRO polypeptides in samples, for linking bioactive molecules to cells and for modulating biological activities of cells, using the polypeptides for specific targeting. The polypeptide targeting can be used to kill the target cells, e.g. for the treatment of cancers. The polypeptide pairs provide specific targeting of bioactive molecules to cells. AAC78600 to AAC78987 represent PCR primers and probes used in the isolation of the PRO polynucleotide sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                             Novel PRO polypeptides and polynucleotides used in detection methods, to target bioactive molecules to specific cells, and to modulate cellular activities -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2000-611443/58.
N-PSDB; AAC78547.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (GETH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              08-MAR-1999;
12-MAR-1999;
                                                                                                                                                                                                         Sequence
                                                                                                                                                                                                                                                                                                                                                                                                  Claim 12; Fig 142; 636pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            23-JUN-1999;
26-JUL-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       28-APR-1999;
14-MAY-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   21-APR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 29-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      18-FEB-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 14-SEP-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WO200053756-A2
121 TSAWSILKHPFNRNSTILTRPGMEIXKXGFHLVIELEDLGPQFEFLVAYWXREPGAEEHV 180
                          61
                                                     61
                                                                                                             _
                         getvyysveyqgeyeslytshiwipsswcsltegpecdvtdditatvpynlrvratlgsq
                                       GETVYYSVEYQGEYESLYTSHIWIPSSWCSLTEGPECDVTDDITATVPYNLRVRATLGSQ 120
                                                                            MQTFTMVLEEIWTSLFMWFFYALIPCLLTDEVAILPAPQNLSVLSTNMKHLLMWSPVIAP 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             J
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GENENTECH INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        . AJ, Baker KP, Botstein D, Desnoyers L, Eaton
4, Filvaroff E, Fong S, Gao W, Gerber H, Gerri
4, Godowski PJ, Grimaldi CJ, Gurney AL, Hillan
10, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA
DL, Stewart TA, Tumas D, Williams PM, Wood WI;
                                                                                                                                                                                                           311 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    99US-0126773.
99US-0130232.
99US-0131445.
99US-0134287.
99US-0141037.
99US-0162506.
99WO-US28313.
99WO-US28551.
99WO-US28551.
99WO-US30095.
99WO-US31243.
99WO-US31274.
2000WO-US00277.
                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2000WO-US04341.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              99WO-US05028
99US-0123957
                                                                                                                                                  99.68;
98.78;
                                                                                                                                     0;
                                                                                                                                                  Score 1620; DB 21; Pred. No. 6.5e-164;
                                                                                                                                     Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                W, GELL, HILL.
Gurney AL, HILL.
J, Paoni NF, Roy MA;
                                                                                                                                     ..
                                                                                                                                                               Length 311;
                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Roy MA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Eaton DL;
Gerritsen ME;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ζij,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DL;
                                                                                                                                     0;
                                                                                                                                     Gaps
                          120
                                                                                                                                     0
```

```
망
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  δã
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         멍
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       밁
  Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Qy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT
                                                                                                                                                                                                                                                                                                                                                                         KW Human; immune related disease; diagnosis; antiinflammatory; cardiant;
WW dermatological; antiarthritic; antirheumatic; immunosuppressive;
WW haemostatic; antithyroid; antidiabetic; nootropic; neuroprotective;
WW antianaemic; hepatotropic; virucide; antipsoriatic; antiallergic;
WW antianathatic; systemic lupus erythematosus; rheumatoid arthritis;
WW osteoarthritis; spondyloarthropathy; systemic sclerosis; sarcoidosis;
WW dilopathic inflammatory myopathy; Sjogren's syndrome; thyroiditis;
WW systemic vasculitis; autoimmune haemolytic anaemla; diabetes mellitus;
WW autoimmune thrombocytopaenia; immune-mediated renal disease;
WW demyelinating disease; hepatobiliary disease; Whipple's disease;
WW inflammatory bowel disease; gluten-sensitive enteropathy;
WW autoimmune disease; immune-mediated skin disease; altergic disease;
WW immunological disease; transplantation associated disease;
WW graft rejection; graft-versus-host-disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAB33440
                                                                                                 02-JUN-1999;
23-JUN-1999;
20-JUL-1999;
26-JUL-1999;
28-JUL-1999;
01-SEP-1999;
          08-SEP-1999;
13-SEP-1999;
15-SEP-1999;
15-SEP-1999;
05-OCT-1999;
29-OCT-1999;
29-NOV-1999;
30-NOV-1999;
                                                                                                                                                                      20-APR-1
28-APR-1
04-MAY-1
14-MAY-1
                                                                                                                                                                                                                   08-MAR-1999;
10-MAR-1999;
12-MAR-1999;
23-MAR-1999;
12-APR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAB33440 standard;
                                                                                                                                                                                                                                                                                       02-MAR-2000;
                                                                                                                                                                                                                                                                                                                                    WO200053758-A2
                                                                                                                                                                                                                                                                                                                                                         Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human PRO1114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAB33440
                                                                                                                                                                                                                                                                                                            14-SEP-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             29-JAN-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ω
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            speellrawis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SPEELLRAWIS 311
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   KMVRSGGIPVHLETMEPGAAYCVKAQTFVKAIGXYSAFSQTECVEVQGEAIPLVLALFAF
 1999;
1999;
1999;
1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
                                                                                                                                                                                                                                                                                       2000WO-US05841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       protein
99US-0132371
99US-0134287.
99WO-US12552.
99US-0141037.
99US-0145588
99US-0146222.
99WO-US20514.
99WO-US20514.
99WO-US21541.
99WO-US21690.
99WO-US21690.
99WO-US21690.
99WO-US21690.
99WO-US21690.
99WO-US21690.
99WO-US21690.
                                                                                                                                                                                             99US-0125775.
99US-0128849.
99WO-US08615.
99US-0131445.
                                                                                                                                                                                                                                          99WO-US05028.
99US-0123618.
99US-0123957.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 311
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Protein; 311
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       UNQ557
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NO:144.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       180
```

```
Ş
                                                                                                                        밁
                                                                                                                                                                                                                                                                                                                                                                      밁
                            S
                                                              밁
                                                                                                                                                  Ş
                                                                                                                                                                                В
                                                                                                                                                                                                          Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The present invention describes sixty four human PRO proteins which can CC be used in the treatment of immune related diseases. The human PRO CC proteins, anti-PRO antibodies, agonists and antagonists are useful for CC treating and diagnosing immune related disorders. The disorders are CC elected from systemic lupus erythematosus, rheumatoid arthritis, constearthritis, juvenile chronic arthritis, spondyloarthropathles, systemic sclerosis, idiopathic inflammatory myopathles, Sogren's CC systemic sclerosis, idiopathic inflammatory myopathles, Sogren's CC syndrome, systemic vasculitis, sarcoidosis, autoimmune haemolytic canaemia, autoimmune thrombocytopaenia, thyroiditis, diabetes mellitus, immune-mediated renal disease, demyelinating diseases of the central CC and peripheral nervous systems, hepatobiliary diseases, inflammatory CC bowel disease, gluter-sensitive enteropathy and Whipple's disease, CC immunological diseases of the lung, and transplantation associated CC diseases including graft rejection and graft-versus-host-disease. CC AAC58397 to AAC58578 represent PCR primers and hybridisation probes used in the isolation of human PRO sequences. AAC58579 to AAC58642 and AAB33414 to AAB33477 represent human PRO polynucleotide and protein sequences given in the exemplification of the present invention.
                                                                                                                                                                                                                                         Query Match
Best Local S
Matches 307
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         01-DEC-1999;

01-DEC-1999;

02-DEC-1999;

02-DEC-1999;

02-DEC-1999;

16-DEC-1999;

20-DEC-1999;

20-DEC-1999;

30-DEC-1999;

30-DEC-1999;

05-JAN-2000;

06-JAN-2000;

11-FEB-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sixty four PRO polypeptides, useful in the diagnosis and treatment immune related disorders, e.g. systemic lupus erythematosis, rheuma arthritis, osteoarthritis, thyroiditis and diabetes mellitus -
                                                                                                                                                                                                                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   N-PSDB; AAC58605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Stewart TA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ashkenazi AJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Kabakoff RC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (GETH ) GENENTECH INC
      181
                                 181
                                                              121
                                                                                         121
                                                                                                                        61
                                                                                                                                                   61
                                                                                                                                                                                                             -
MQTFTMVLEEIWTSLFMWFFYALIPCLLTDEVAILPAPQNLSVLSTNMKHLLMWSPVIAP
                                                                       TSAWSILKHPENRNSTILTRPGMEIXKXGFHLVIELEDLGPQFEFLVAYWXREPGAEEHV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2000-572271/53.
                                                         {\tt tsawsilkhpfnrnstiltrpgmeitkdgfhlvieledlgpqfeflvaywrrepgaeehv}
                                                                                                                                                                             mqtftmvleeiwtslfmwffyalipclltdevailpapqnlsvlstnmkhllmwspviap
                                                                                                                                                                                                                                          307;
                                                                                                                                                                                                                                                        Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Fig 54; 309pp;
                                                                                                                                                                                                                                                                                                                  311
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            99WO-US31274
2000WO-US00219
2000WO-US00277
2000WO-US00376
2000WO-US03565
2000WO-US034341
2000WO-US04342
                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Tumas D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2000WO-US04414
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ę
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               99WO-US28301.
99WO-US2853.
99WO-US28551.
99WO-US28564.
99WO-US28565.
99WO-US30095.
99WO-US30999.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Baker
Lu Y,
                                                                                                                                                                                                                                                                                                                  ă,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Pan
                                                                                                                                                                                                                                                      99.6%;
98.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Watanabe CK,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Goddard A,
J, Pennica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          English.
                                                                                                                                                                                                                                         0,
                                                                                                                                                                                                                                       Score 1620; DB 21;
Pred. No. 6.5e-164;
0; Mismatches 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          D, Sheli
Wood WI,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gurney AL, He
D, Shelton DL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Yan M;
                                                                                                                                                                                                                                         Indels
                                                                                                                                                                                                                                                                   Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Hebert C,
DL, Smith
                                                                                                                                                                                                                                                                      311;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Henzel
                                                                                                                                                                                                                                      0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         rheumatoid
-
                                                                                                                                                                                                                                      Gaps
                                                                                                                     120
                                                           180
                                                                                        180
                                                                                                                                                  120
                                                                                                                                                                               60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Σ
                                                                                                                                                                                                                                         0,
```

```
RESULT
AAY97046
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                맑
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Š
                                      Novel transmembrane proteins, designated TANGO 241 and TANGO 242, are members of the class II cytokine receptor superfamily. The TANGO 241 and 242 genes have been localized to human chromosomes 1p36 and 3q21, respectively. The proteins, cDNA and their modulators can be used for the treatment of viral and bacterial infection, inflammatory and autoimmune treatment of viral and bacterial infection, inflammatory and autoimmune
        disorders, vascular injury and inhibition of angiogenesis. In particular, TANGO 241 can be used to treat pancreatic disorders and TANGO 242 can be used to treat brain disorders.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TANGO 242; transmembrane; class II; cytokine receptor; chromosome 3q21; cytostatic; cerebroprotective; immunomodulatory; anti-inflammatory;
                                                                                                            Claim
                                                                                                                                              New
                                                                                                                                                                  N-PSDB;
                                                                                                                                                                                                                                                                                            06-JUL-2000.
                                                                                                                                                                                                                                                                                                               WO200039161-A1
                                                                                                                                                                                                                                                                                                                                                  Domain
                                                                                                                                                                                                                                                                                                                                                                       Domain
                                                                                                                                                                                                                                                                                                                                                                                             Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                хеу
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             virucide; antibacterial; vasotropic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human TANGO 242
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAY97046 standard; Protein; 311 AA.
                                                                                                                                                                                                    Busfield
                                                                                                                                                                                                                         (MILL-) MILLENNIUM PHARM INC
                                                                                                                                                                                                                                                                      30-DEC-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                       Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 241
                                                                                                                                   TANGO
                                                                                                                                nucleic acid molecules
TANGO 242 used for trea
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2000-452372/39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               speellrawis 311
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SPEELLRAWIS 311
                                                                                                           8; Fig
                                                                                                                                                                  AAA51871,
                                                                                                                                                                                                    S
                                                                                                           3; 127pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first
                                                                                                                                                                                                                                                98US-0224669
                                                                                                                                                                                                                                                                      99WO-US31328
                                                                                                                                                                                                                                                                                                                                                                                                                                                            /label=
30..311
/label=
30..230
                                                                                                                                                                                                                                                                                                                                                                        /note=
231..2
                                                                                                                                                                                                                                                                                                                                                                                                                 /note=
35..12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                             /label= Fibronectin_III_domain 134
                                                                                                                                                                                                                                                                                                                                                          /label= Transmembrane_domain
                                                                                                                                                                                                                                                                                                                                     /label= Cytoplasmic_domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                  /label=
                                                                                                                                                                    AAA51872
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            entry)
                                                                                                                               ules encoding polypeptides designated TANGO 241 treating e.g. brain and pancreatic disorders
                                                                                                           English.
                                                                                                                                                                                                                                                                                                                                                                                 "N-linked
                                                                                                                                                                                                                                                                                                                                                                                                                           "N-linked glycosylation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mature_protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Extracellular_domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Signal_peptide
                                                                                                                                                                                                                                                                                                                                                                               glycosylation
                                   modulators can be used for the inflammatory and autoimmune
                                                                                                                                                                                                                                                                                                                                                                                                                            site"
```

```
RESULT
AAY44664
ID AAYY
XX AAY
XX AAY
XX Inte

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            QΥ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           84
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ρy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          δÃ
SS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local S
Matches 307
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         immune dysfunction; immune system disorder; proliferative disease; cancer; inflammatory disorder; persistent infection; autoimmune disease; arthritis; leukemia; lymphoma; immunosuppression; myelosuppression; inflammatory bowel disease; Jaks-STATS signal transduction pathway.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                                                                                                     Domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              18-APR-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAY44664 standard;
                                                                                                                                                                                                                                                                 Peptide
                                                                                                                                                                                                                                                                                                                                                 Domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Interferon receptor HKAEF92; INFR; ATCC No. 209746; viral infection; immune dysfunction; immune system disorder; proliferative disease;
                                                                                                                                                                                  Peptide
                                                                                                                                                                                                                       Peptide
                                                                                                                                                                                                                                                                                                         Domain
                                                                                                                                                                                                                                                                                                                                                                                                                             Peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Interferon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        KMVRSGGIPVHLETMEPGAAYCVKAQTFVKAIGXYSAFSQTECVEVQGEAIPLVLALFAF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             speellrawis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SPEELLRAWIS 311
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Receptor-HKAEF92
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       311
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  99.6%;
nilarity 98.7%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3
                                                                                                                                        /note- "/
172..199
                                                                                                                                                                                /note- "/
129..162
                                                                                                                                                                                                                                                               /label= Intracellular_domain 69..77
                                                                                                                                                                                                                                          'note=
                                                                                                                                                                                                                                                                                                                          /label=
                                                                                                                                                                                                                                                                                                                                                                /label=
                                                                                                                                                                                                                                                                                                                                                                                                        /label= Signal_peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                               Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Protein;
                                                                                                                                                                                                                                          "Antigenic
                                                                                                                                                                                                   "Antigenic
                                                                               "Antigenic
                                                                                                                     *Antigenic
                                                                                                                                                             "Antigenic
                                                                                                                                                                                                                                                                                                                        Transmembrane_domain
                                                                                                                                                                                                                                                                                                                                                                Extracellular_domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            311
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 1620; DB 21;
Pred. No. 6.5e-164;
0; Mismatches 4;
                                                                             epitope-bearing
                                                                                                                   epitope-bearing
                                                                                                                                                           epitope-bearing
                                                                                                                                                                                                   epitope-bearing
                                                                                                                                                                                                                                          epitope-bearing
                                                                                                                                                                                                peptide'
                                                                                                                                                                                                                                          peptide'
                                                                                                                 peptide'
                                                                                                                                                         peptide'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            311;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0;
```

```
밁
                                                                                                                                                                         Ş
                                                                                                                                                                                              В
                                                                                                                                                                                                                δÃ
                                                                                                                                                                                                                                      멂
                                                                                                                                                                                                                                                       δÃ
                                                                                                                                                                                                                                                                              밁
                                                                                                                                                                                                                                                                                                Qy
                                                                                                                                                                                                                                                                                                                     밁
                                                                                                                                                                                                                                                                                                                                      Ş
                                                                                                                                                                                                                                                                                                                                                              밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CDNA clone HKAEF92 (ATCC NO. 209746) derived from human keratinocyte cDNA library. INFR-HKAEF92 polypeptides are used in the treatment of disorders associated with viral infection, immune dysfunction and proliferative diseases such as cancer, inflammatory disorders, persistent infection, autoimmune diseases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   persistent infection, autoimmune diseases, arthritis, leukemias, lymphomas, immunosuppression, inflammatory bowel disease, or myelosuppression. The products can also be used for detection, diagnosis and drug screening. INFR-HKAEF92 protein activates Jaks-STATS
                                                              05-APR-2000
                                                                                                     AAY66676 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 17; Fig 1; 98pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New isolated interferon receptor HKAEF92 polynucleotides, develop products for treating, e.g. immune system related
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          N-PSDB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               05-JUN-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    03-JUN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (HUMA-) HUMAN
                                                                                                                                                        301
                                                                                                                                                                           301
                                                                                                                                                                                               241
                                                                                                                                                                                                                                       181
                                                                                                                                                                                                                                                                              121
                                                                                                                                                                                                                                                           181
                                                                                                                                                                                                                                                                                                 121
                                                                                                                                                                                                                                                                                                                                                                                                     Local Similarity nes 307; Conserv
                                                                                                                                                                                                                                                                                                                      61
                                                                                                                                                                                                                                                                                                                                          61
                                                                                                                         6
                                                                                                                                                      SPEELLRAWIS
                                                                                                                                                                                             GETVYYSVEYQGEYESLYTSHIWIPSSWCSLTEGPECDVTDDITATVPYNLRVRATLGSQ 120
                                                                                                                                                                                                                                                                                                                                                            TSAWSILKHPFNRNSTILTRPGMEIXKXGFHLVIELEDLGPQFEFLVAYWXREPGAEEHV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2000-147043/13
                                                                                                                                                                                                                                                                                                                     getvyysveyqgeyeslytshiwipsswcsltegpecdvtdditatvpynlrvratlgsq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          transduction pathway in a dose-dependent manner.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAZ49747
                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GENOME SCI INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ä
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    99WO-US12156
                                                                                                     protein;
                                                                                                                                                                                                                                                                                                                                                                                                             99.6%;
                                                                                                                                                                                                                                                                                                                                                                                                     0;
                                                                                                                                                                                                                                                                                                                                                                                                     Score 1620; DB 21;
Pred. No. 6.5e-164;
D; Mismatches 4;
                                                                                                                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          used to
disorders
                                                                                                                                                                                                                                                                                                                                                                                                     0;
                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                          240
                                                                                                                                                                                               300
                                                                                                                                                                                                                                       240
                                                                                                                                                                                                                                                                               180
                                                                                                                                                                                                                                                                                                  180
                                                                                                                                                                                                                                                                                                                                                               60
                                                                                                                                                                                                                                                                                                                                                                                 60
```

0;

Membrane-bound polypeptide; PRO polypeptide; LDL receptor; pharmaceutical; receptor immunoadhesin; gene mapping.

TIE ligand;

Membrane-bound

protein PRO1114.

R 24-JUN-1998; 98US-00	PR 24-JUN-1998; 98US-0090538.	R 24-JUN-1998; 98US-00	R 24-JUN-1998; 98US-001	R 24-JUN-1998; 9805-009	R 24-JUN-1998; 98US-009	R 24-JUN-1998; 98US-009	R 24-JUN-1998; 9805-009	R 23-JUN-1998; 98US-009	R 22-JUN-1998; 98US-00	R 22-JUN-1998; 98US-00	R 22-JUN-1998; 98US-009	R 19-JUN-1998: 98US-000	R 19-THN-1998; 9805-000	R 10-TIN-1998; 98US-000	R 18-JUN-1998; 98US-000	R 18-JUN-1998; 98US-000	R 17-JUN-1998; 98US-008	R 17-JUN-1998; 98US-008	1998: 980S-000	1998; 980S-000	1998; 9805-00	R 16-JUN-1998; 98US-008	R 16-JUN-1998; 98US-000	R 16-JUN-1998; 98US-008	R 12-JUN-1998; 98US-000	R 11-JUN-1998; 98US-000	R 11-JUN-1998; 98US-008	R 11-JUN-1998; 98US-008	R 10-JUN-1998; 9805-000	R 10-JUN-1998; 98US-000	R 10-JUN-1998; 98US-00	R 10-JUN-1998; 98US-008	1998; 98US-00	R 10-JUN-1998; 98US-008	R 10-JUN-1998; 98US-000	R 10-JUN-1998; 98US-008	R 10-JUN-1998; 98US-008	R 10-JUN-1998; 98US-008	R 05-JUN-1998; 980S-000	R 05-JUN-1998; 98US-008	1998; 98US-008	4-JUN-1998; 98US-00	04-JUN-1998; 98US-008	04-JUN-1998; 98US-008	04-JUN-1998; 98US-000	04-JUN-1998; 98US-001	04-JUN-1998; 98US-008	02-JUN-1998; 98US-000	02-JUN-1998; 98US-008	02-JUN-1998: 98US-008	PF 02-JUN-1999; 99WO-US12252.	000	09-090-	PN W09963088-A2.	OS Homo sapiens.
_																																																							
PA	PR	PR	PR	PR	PR	י ס	PR	PR	PR	PR	PR T	א ק	PR	PR	PR	PR	PR :	PR	מים	PR	PR	PR	PR	0 P	PR	PR	PR	א ק א ק	PR	PR	PR	ק ק	PR	PR	קי גיק	PR	PR	יי א א	PR	PR	ט גע	PR	PR	g P	PR	PR	D PR	PR	PR	D PR	PR	ים ק	PR	PR	PR
(GETH) GENENTECH	16-SEP-1998; 12-JAN-1999;	1-AUG	6-AUG	6-AUG	6-AUG	A AUG	6-AUG	6-AUG-	6-AUG-	6-AUG	A - AUG -	AUG-	B-AUG	8-AUG	8-AUG-	8-AUG-	8-AUG-	17-AUG-1998;	AOG	-AUG	-AUG-	-AUG-	- AUG	AUG	-AUG-	-AUG-	-AUG-	- AUG	-AUG	-AUG-	-AUG-	AUG	-AUG-	-AUG-	- AUG	Jar-	-Jur		Ę	-10F-		-JUL-	-JDF-	į	Jar-	-TDF-	Į.	Įġ.	JUN	NOC	JUN-	JUN	N P	25-JUN-1998; 25-JUN-1998;	-ND-
TECH INC.	-011	9	000	000	000		000	9	-005	000	9			9	9	900	000	000		0	000	-000	000		000	00	000		000	200	000		80	-009	96	900	-000		000	000	000	900	000	000	8	900		0	000	900	000		00	98US-0090678. 98US-0090688.	000

```
ARBSULT
AAB651
XX AAB6
XX AAB6
XX O2-A
DT O2-A
XX Huma
XX Huma
XX Huma
XX Gell
KW Cell
KW Cell
                                                                                                                                                                                                                                               δÃ
                                                                                                                                                                                                                                                                          망
                                                                                                                                                                                                                                                                                                                           ₽
                                                                                                                                                                                                                                                                                                                                                  Ş
                                                                                                                                                                                                                                                                                                                                                                              밁
                                                                                                                                                                                                                                                                                                                                                                                                    Ş
                                                                                                                                                                                                                                                                                                                                                                                                                              밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ş
                                                                                                                                                                                                                         밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The invention provides membrane-bound PRO polypeptides and polynucleotides encoding them. The PRO sequences of the invention were identified based on extracellular domain homology screening. The PRO sequences have homology with proteins including LDL receptors, TIE ligands and various enzymes. The membrane-bound proteins and receptor molecules are useful as pharmaceutical and diagnostic agents. Receptor immunoadhesins, for instance, can be used as therapeutic agents to block receptor-ligand interactions. The membrane-bound proteins can also be employed for screening of potential peptide or small molecule inhibitors of the relevant receptor/ligand interaction. The PRO encoding sequences are useful as hybridization probes, in chromosome and gene mapping and in the generation of antisense RNA and DNA. PRO nucleic acid sequences. will also be useful for the preparation of PRO polypeptides, especially by recombinant techniques.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Baker
                                         Human; secre
cell death;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2000-072883/06.
N-PSDB; AAZ65011.
 Homo sapiens
                           diagnostic assay.
                                                                             Human PRO1114 (UNQ557) protein sequence SEQ ID NO:183
                                                                                                       02-APR-2001
                                                                                                                                                          AAB65199 standard; Protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Membrane-bound proteins and related nucleotide sequences
                                                                                                                                                                                                                         301
                                                                                                                                                                                                                                                  301
                                                                                                                                                                                                                                                                         181
                                                                                                                                                                                                                                                                                                                                                      181
                                                                                                                                                                                                                                                                                                                                                                               121
                                                                                                                                                                                                                                                                                                                                                                                                       121
                                                                                                                                                                                                                                                                                                                                                                                                                               61
                                                                                                                                                                                                                                                                                                                                                                                                                                                        61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           recombinant techniques.
                                                                                                                                                                                   7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WI,
                                                                                                                                                                                                                         speellrawis
                                                                                                                                                                                                                                   SPEELLRAWIS
                                                                                                                                                                                                                                                                                                                       kmvrsggipvhletmepgaaycvkaqtfvkaigrysafsqtecvevqgeaiplvlalfaf 240
                                                                                                                                                                                                                                                                                                                                         KMVRSGGIPVHLETMEPGAAYCVKAQTFVKAIGXYSAFSQTECVEVQGEAIPLVLALFAF
                                                                                                                                                                                                                                                                                                                                                                           al Similarity
307; Conserv
                                      secreted and transmembrane protein; PRO; eath; cancer; chromosomal mapping; gene ma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Chen J,
Yuan J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Fig
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   311 AA;
                                                                                                       (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    117;
                                                                                                                                                                                                                                                  311
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   822pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Goddard A, Gurney AL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              99.6%;
98.7%;
                                                                                                                                                          311
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 1620; DB 21;
Pred. No. 6.5e-164;
0; Mismatches 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Smith V,
                                      mapping; tissue typing;
                                                   cytostatic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Watanabe CK;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            311;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                           300
                                                                                                                                                                                                                                                                                                   300
                                                                                                                                                                                                                                                                                                                                                     240
                                                                                                                                                                                                                                                                                                                                                                               180
                                                                                                                                                                                                                                                                                                                                                                                                      180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0
```

Ş

1 MQTFTMVLEEIWTSLFMWFFYALIPCLLTDEVAILPAPQNLSVLSTNMKHLLMWSPVIAP

Matches

Conservative

0

Query Match Best Local Similarity

99.6%; 98.7%;

Score 1620; Pred. No. 6 Mismatches

DB 22; 5.5e-164;

Length Indels

0; Gaps

0

```
The present invention describes human secreted and transmembrane PRO proteins. The PRO proteins have cytostatic activity. The PRO proteins C can be used for targeted delivery of bioactive molecules, such as toxins, radiolabels or antibodies, that cause cell death. PRO nucleotide sequences, and their fragments, can be used as hybridisation probes, in chromosomal and gene mapping, and in the generation of anti-sense RNA and DNA. They may also be used to produce transgenic animals which are used to develop and screen therapeutically useful reagents. The PRO nucleotide and protein sequence can be used for tissue typing and in treating cancer. Anti-PRO antibodies can be used in diagnostic assays. AAR44270 to AAR4470 represent PCR primers and hybridisation probes used in the isolation of human PRO sequences. AAR44087 to AAR44269 and screen thuman PRO polynucleotide and protein sequences given in the exemplification of the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        20-DEC-1999;
05-JAN-2000;
06-JAN-2000;
11-FEB-2000;
18-FEB-2000;
22-FEB-2000;
24-FEB-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            08-OCT-1999;
30-NOV-1999;
01-DEC-1999;
16-DEC-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           02-JUN-1999;
23-JUN-1999;
07-JUL-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   26-JUL-1999;
28-JUL-1999;
17-AUG-1999;
                                                                                                                                                                                                                                                                          PRO polynucleotides used to produce polypeptides used to target bioactive molecules such as toxins, radiolabels or antibodies, to specific cells, to cause targeted cell death -
                                                                                                                                                                                                                                                                                                                                                                                            Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton
Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A,
Grimaldi CJ, Gurney AL, Kljavin IJ, Napier MA, Pan J,
Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM,
                                                                                                                                                                                                                                               Claim 12; Fig 117; 935pp; English.
                                                                                                                                                                                                                                                                                                                                      WPI; 2001-032160/04.
N-PSDB; AAF44157.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WO200073454-A1
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     30-MAR-2000;
                                                                                                                                                                                                                                                                                                                                                                                Zhang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        15-SEP-1999;
15-SEP-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (GETH ) GENENTECH INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             20-JUL-1999;
311
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2000WO-US00219.
2000WO-US00376.
2000WO-US03565.
2000WO-US04341.
2000WO-US04341.
2000WO-US04914.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2000WO-US05004.
2000WO-US05841.
2000WO-US06884.
2000WO-US07377.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2000WO-US08439
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            99WO-US28313.
99WO-US28313.
99WO-US28301.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      99US-0149396.
99WO-US21090.
99WO-US21547.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                99WO-US30911
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              99WO-US30095
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                99US-0145698
99US-0146222
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1
                                                                                                                                                                                                                                                                                                                                                                                               Paoni
Wood
                                                                                                                                                                                                                                                                                                                                                                                                                          Godowski PJ;
                                                                                                                                                                                                                                                                                                                                                                                               WI;
```

```
RESULT
AAY39472
망
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      망
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                밁
                 This sequence is the DNAX Interferon-like receptor subunit 1 (DIRS1) of the invention. The invention also relates to the DIRS2 protein sequence. The DIRS1 and DIRS2 sequences are subunits of receptors related to cytokine receptors. The isolated receptor gene provides means to generate an economical source of the receptor, allow expression of more receptors on a cell leading to increased assay sensitivity, promote characterisation of various receptor subtypes and variants, and allow correlation of activity with receptor structures. The invention should contribute to new therapies for degenerative and abnormal conditions that involve cellular development, differentiation or function.
                                                                                                                                                                                                                                                                                                                                                                            therapy;
cellular
                                                                                                                                   Claim 1;
                                                                                                                                                                 New receptor subunits potentially useful, e.g. for treating degenerative and abnormal conditions that involve cellular development,
                                                                                                                                                                                                 N-PSDB;
                                                                                                                                                                                                                               Parham
                                                                                                                                                                                                                                                                        09-MAR-1998;
                                                                                                                                                                                                                                                                                             08-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                        Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                            DNAX interferon-like receptor subunit; DIRS1; DIRS2; cytokine receptor;
                                                                                                                                                                                                                                                                                                                                                                                                                    DNAX interferon-like receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAY39472;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAY39472 standard;
                                                                                                                                                                                                                                                                                                                16-SEP-1999
                                                                                                                                                                                                                                                                                                                                     W09946379-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                         19-NOV-1999
                                                                                                                                                                                                                                                   (SCHE ) SCHERING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     œ
                                                                                                                                                                                                          1999-551408/46
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SPEELLRAWIS 311
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          \verb|mqtftmvleeiwtslfmwffyalipclltdevailpapqnlsvlstnmkhllmwspviap|
                                                                                                                                                                                                                               CL,
                                                                                                                                   Page
                                                                                                                                                                                                                                                                                                                                                                             development;
                                                                                                                                                                                                                                                                                                                                                                                     degenerative
                                                                                                                                                                                                                               Moore KW,
                                                                                                                                                                                                                                                                                                                                                                                                                                        (first
                                                                                                                                   74-76; 82pp;
                                                                                                                                                                                                                                                                        98US-0037394.
                                                                                                                                                                                                                                                                                           99WO-US03735.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                        entry)
                                                                                                                                                                                                                                                                                                                                                                            condition; abnormal condition;
cell differentiation.
                                                                                                                                                                                                                               Murgolo
                                                                                                                                   English.
                                                                                                                                                                                                                                                                                                                                                                                                                   subunit 1 protein sequence
                                                                                                                                                                                                                               'n,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ₽
                                                                                                                                                                                                                               Bazan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                60
```

```
RESULT
AAY97048
ID AAYS
Š
                                                                                                                                                                                                                                                                                                                                                                                                                 밁
                                                                                                                                                                                                                                                                                                                                                                                                                                Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                   닭
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    δÃ
                                                                                                                                                                                                                                                                                                                                                                                 밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
                                                                                                                                                                                                                                                                                        Murine
                                                                                                                                                                                                                                                       antibacterial;
                                                                                                                                                                                                                                                             TANGO 242; transmembrane; class II; cytokine receptor; cytostatic; cerebroprotective; immunomodulatory; anti-inflammatory; virucide;
                                                                                                           N-PSDB;
                                                                                                                                   Busfield
                                                                                                                                                   (MILL-) MILLENNIUM PHARM INC
                                                                                                                                                                    31-DEC-1998;
                                                                                                                                                                                     30-DEC-1999;
                                                                                                                                                                                                    06-JUL-2000
                                                                                                                                                                                                                      WO200039161-A1
                                                                                                                                                                                                                                                                                                       31-OCT-2000
                                                                                                                                                                                                                                                                                                                        AAY97048;
                                                                                                                                                                                                                                                                                                                                        AAY97048 standard;
                                                                                                                                                                                                                                                                                                                                                                                 301
                                                                                                                                                                                                                                                                                                                                                                                                 301
                                                                                                                                                                                                                                                                                                                                                                                                                 241
                                                                                                                                                                                                                                                                                                                                                                                                                                                   181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 MQTFTMVLEEIWTSLEMWFFYALIPCLLTDEVAILPAPQNLSVLSTNMKHLLMWSPVIAP 60
                                                                                                                                                                                                                                                                                                                                                        ø
                                                                                                                                                                                                                                     sp.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GETYYYSVEYQGEYESLYTSHIWIPSSWCSLTEGPECDVTDDITATVPYNLRVRATLGSQ 120
                                                                                                                  2000-452372/39
                                                                                                                                                                                                                                                                                                                                                                                speellrawis
                                                                                                                                                                                                                                                                                                                                                                                                 SPEELLRAWIS
                                                                                                                                                                                                                                                                                                                                                                                                                 VGFMLILVVVPLFVWKMGRLLQYSCCPVVVLPDTLKITNSPQKLISCRREEVDACATAVM 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                          KMVRSGGIPVHLETMEPGAAYCVKAQTFVKAIGXYSAFSQTECVEVQGEAIPLVLALFAF 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    getvyysveyqgeyeslytshiwipsswcsltegpecdvtdditatvpynlrvratlgsg 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     mqtftmvleeiwtslfmwffyalipclltdevailpapqnlsvlstnmkhllmwspviap 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                  kmvrsggipvhletmepgaaycvkaqtfvkaigrysafsqtecvevqgeaiplvlalfaf
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        307;
                                                                                                                                                                                                                                                                                        TANGO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Similarity
                                                                                                          AAA51875,
                                                                                                                                   SJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                        242.
                                                                                                                                                                                                                                                                                                      (first
                                                                                                                                                                                                                                                      vasotropic.
                                                                                                                                                                     98US-0224669
                                                                                                                                                                                     99WO-US31328
                                                                                                                                                                                                                                                                                                                                                                                                311
                                                                                                           AAA51876
                                                                                                                                                                                                                                                                                                                                        Protein;
                                                                                                                                                                                                                                                                                                      entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               99.5%;
98.7%;
                                                                                                                                                                                                                                                                                                                                        308
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 1619; DB 2v,
Pred. No. 8.3e-164;
                                                                                                                                                                                                                                                                                                                                        À
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        311;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                  300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0,
```

respectively. The proteins, cDNA and their modulators can be used for the treatment of viral and bacterial infection, inflammatory and autoimmune disorders, vascular injury and inhibition of anglogenesis. In particular TANGO 241 can be used to treat pancreatic disorders and TANGO 242 can be

Novel transmembrane proteins, designated TANGO 241 and TANGO 242, aromembers of the class II cytokine receptor superfamily. The TANGO 241 242 genes have been localized to human chromosomes 1p36 and 3q21,

are

and

Disclosure; Fig 8A-B; 127pp; English

nucleic acid molecules encoding polypeptides designated TANGO 241 TANGO 242 used for treating e.g. brain and pancreatic disorders

```
RESULT :
                                                                                                                                                                                                                                                                                                                                                                                                                                                            밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 밁
  80
                                                                                                                                                                                                                                                                                                                                                                                                                         밁
                                                                                                                                                                                                                                                                                                                                                                                                                                         Qγ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ρ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     δã
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ρy
                                                                                                                                                                                                                                                                                                                                                                                      밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SXS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local
The present sequence is a polypeptide encoded by one of a large number of 5' ESTs derived from mRNAs encoding secreted proteins. The 5' ESTs were prepared from total human RNAs or polyA+ RNAs derived from 30
                                                      New nucleic acid that is a 5' expressed sequence tag (5' EST) for obtaining cDNAs and genomic DNAs that correspond to 5'ESTs and for diagnostic, forensic, gene therapy and chromosome mapping procedures
                                                                                           WPI; 2000-500381/45.
N-PSDB; AAC03615.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            used
                                                                                                                                                                                                                                                                                                                                        AAG03609 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                       Dumas Milne Edwards J,
                                                                                                                                                             26-FEB-1999;
                                                                                                                                                                               21-FEB-2000;
                                                                                                                                                                                                 06-SEP-2000
                                                                                                                                                                                                                   EP1033401-A2
                                                                                                                                                                                                                                    Homo sapiens
                                                                                                                                                                                                                                                       gene
                                                                                                                                                                                                                                                                 Human;
                                                                                                                                                                                                                                                                                  Human
                                                                                                                                                                                                                                                                                                    06-OCT-2000
                                                                                                                                                                                                                                                                                                                       AAG03609;
                                                                                                                                          (GEST ) GENSET
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  121
                                                                                                                                                                                                                                                                                                                                                                                      301
                                                                                                                                                                                                                                                                                                                                                                                                                          241
                                                                                                                                                                                                                                                                                                                                                                                                                                           246
                                                                                                                                                                                                                                                                                                                                                                                                                                                             181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                186
                                                                                                                                                                                                                                                                                                                                                                                                        306
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   126
                                                                                                                                                                                                                                                                                                                                                          10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      66
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        _
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          6
                                                                                                                                                                                                                                                                                                                                                                                                                                                           fgvwis 306
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MVLEEIWTSLFMWFFYALIPCLLTDEVAILPAPQNLSVLSTNMKHLLMWSPVIAPGETVY 65
                                                                                                                                                                                                                                                      therapy;
                                                                                                                                                                                                                                                                                                                                                                                                      LRAWIS 311
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GGIPVHLETMEPGAAYCVKAQTFVKAIGXYSAFSQTECVEVQGEAIPLVLALFAFVGFML
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ycveyqgeyeslymshiwipssqcsptkslecdvtdditatvpynfrvkamlgsqtsaws
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            YSVEYQGEYESLYTSHIWIPSSWCSLTEGPECDVTDDITATVPYNLRVRATLGSQTSAWS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       misqgvwtspimwffysmtsgfltdavsvlpapqnlsvqstnmkhllmwnpvtqpgetvl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           6
                                                                                                                                                                                                                                                                                 secreted protein,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           234;
                                                                                                                                                                                                                                                             5' EST;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           treat
                                      SEQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         308
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                               2000EP-0200610
                                                                                                                                                                                                                                                                                                    (first entry)
                                      ID 7690;
                                                                                                                                                                                                                                                       chromosome
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           brain
                                                                                                                                                            99US-0122487
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A
                                                                                                                                                                                                                                                              expressed
                                                                                                                                                                                                                                                                                                                                        Protein; 100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      76.4%;
76.5%;
                                    71pp + CD-ROM; English.
                                                                                                                                                                                                                                                                                 SEQ
                                                                                                                       Duclert A,
                                                                                                                                                                                                                                                       mapping.
                                                                                                                                                                                                                                                               sequence tag;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            24;
                                                                                                                                                                                                                                                                                 ID NO: 7690.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 1243; Db 21,
                                                                                                                                                                                                                                                                                                                                        8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
                                                                                                                       Giordano
                                                                                                                                                                                                                                                               secreted protein; cDNA isolation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            48;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              245
                                                                                                                                                                                                                                                                                                                                                                                                                                                             240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        60
                                                                                                                                                                                                                                                                                                                                                                                                                                           305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0
```

```
δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Вb
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              33333333333<del>3</del>3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAW52296
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              different tissues. EST sequences usually correspond mainly to the 3' untranslated region (UTR) of the mRNA because they are often obtained from oligo-dT primed CDNA libraries. Such ESTs are not well suited for isolating cDNA sequences derived from the 5' ends of mRNAs and even in those cases where longer cDNA sequences have been obtained, the full 5' UTR is rarely included. 5' ESTs are derived from mRNAs with intact 5' ends and can therefore be used to obtain full length cDNAs and genomic chromosome mapping procedures. They are used to obtain upstream regulatory sequences and to design expression and secretion vectors.
                                                                                                                                                                                                                                                                                                                                                                                   CRFB4; interleukin-10; IL-10; IL-10 receptor; allograft rejection; vaccine; photosensitivity; inflammation; autoimmune disease; septic shock; immune response; organ rejection; gene therapy.
                                                                                                                Claim 2; Page
                                                                                                                                                New recombinant DNA - comprises sequences encoding interleukin-10 and CRFB4 linked to operator, useful, e.g. preventing allograft
                                                                                                                                                                                    N-PSDB; AAV19874.
                                                                                                                                                                                                                                                                    17-JUL-1996;
                                                                                                                                                                                                                                                                                         17-JUL-1997;
                                                                                                                                                                                                                                                                                                                                        WO9802542-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                 CRFB4 protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                        23-JUN-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAW52296;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAW52296 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence
                                                                                                                                      rejection
                                                                                                                                                                                                WPI; 1998-110590/10
                                                                                                                                                                                                                                                                                                                 22-JAN-1998
                                                                                                                                                                                                                                             (UYNE-) UNIV NEW JERSEY
                                                                                                                                                                                                                                                                                                                                                             Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ςV,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              100 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
                                                                                                                -; 79pp; English.
                                                                                                                                                                                                                                                                    96US-0683743
                                                                                                                                                                                                                                                                                          97WO-US12455
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               32.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     325
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 529; DB 21;
Pred. No. 1.3e-48;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 100;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         in
5
```

0

This sequence is the human CRFB4 sequence, DNA encoding it is used in the recombinant DNA (I) of the invention. (I) comprises a sequence (S1) encoding the interleukin-10 (IL-10) receptor (IL10R) and a sequence (S2) encoding CRBB4, both operably linked to expression control sequences. Cells containing (I) may be used to identify agonists/antagonist of IL-10. Agonists are potentially useful, e.g. for preventing allograft rejection, as vaccine adjuvants, for treatment of photosensitivity, inflammation, autoimmune disease and septic shock, while antagonists are potentially useful for increasing immune responses against tumours,

888888888888888888

```
RESULT 12
AAB31214
ID AAB312
XX
AC AAB312
XX
AC AAB312
XX
C AAB312
XX
C AAB312
XX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               viruses, bacteria and parasites (especially intracellular pathogens) and for preventing organ rejection. A vector containing (I) is used to restore, e.g. by gene therapy, II-10 sensitivity to a cell that expresses a dysfunctional IL10R and is able to bind II-10 but not to transduce a signal. Antisense CRFB4 sequences (especially ribozymes), can inhibit II-10 activity in cells. Antibodies specific for CRFB4 are used to measure and localise CRBF4, for diagnosis of defective II-10 activity. Fragments of (I) are used as primers or probes to assay CRFB4-specific RNA. Agonists/antagonists may be administered parenterally, orally or rectally especially by intravenous injection or directly into a tumour or
                                                                                                                                                                                                                                                                                                                                                                                                                                            Human; secreted protein; transmembrane protein; PRO196; PRO444; PRO183; PRO185; PRO210; PRO215; PRO217; PRO242; PRO288; PRO365; PRO1361; PRO1308; PRO1181; PRO4272; PRO248; PRO353; PRO1318; PRO1181; PRO60018; PRO1940; PRO33; PRO301; PRO187; PRO337; PRO1411; PRO4356; PRO246; PRO265; PRO941; PRO306; PRO6003; PRO6004; PRO265; PRO941; PRO1096; PRO6003; PRO6004; PRO350; PRO2630;
  Modified-site
                                                 Modified-site
                                                                                                                                                    Modified-site
                                                                                                                                                                                                                                                      Modified-site
                                                                                                                                                                                                                                                                                                        Peptide
                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                  PRO6309; cell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Amino acid sequence of human polypeptide PRO2630.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            20-APR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAB31214 standard; Protein; 325
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               allograft.
                                                                                                  Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              20 swmvavilmasv-fmvciallgcfsllwcvykktkyafsprnslpqhlk 267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     174
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     130
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Local Similarity
nes 77; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  71
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                12 WTSLFMWFFYALIPCLLTDEVAILPAPQNLSVLSTNMKHLLMW-SPVIAPGETVYYSVEY 70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ω
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                QGEYESLYTSHIWIPSSWCSLTEGPECDVTDDITATVPYNLRVRATLGSQTSAW-SILKH 129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ngtdekfqitpqydfev-lrnlepwttycvqvrgflpdrnkagewsepvceqtthdetvp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PGAEEHVKMVRSGGIPVHLETMEPGAAYCVKAQTFVKAIGXYSAFSQTECVE-VQGEAIP | :| :| :| :| :| :| :|
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 w-slgsw----lggcllvsalgmvpppenvrmnsvnfknilgwespafakg----nltf 52
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              pv--ddtiigppgmqvevladsl--hmrflapkieneyetwtmknvynswtynvqyw--k
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PFNRNSTILTRPGMEIXKXGFHLVIELEDLGPQFE-------FLVAYWXRE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 tagylsyr----ifqdkcmnttltecdfs-slskygdhtlrvraefadehsdwvnitfc 106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               -LVLALFAFVGFMLILVVVPLF--VWKMGRLLQYSCCPVVVLPDTLK 276
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                325
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                               death;
                                                                                                                                                                                                  /note= ";
316..322
/note= "1
161..165
                                                                                                                                                 /note=
49..53
                                                 /note=
102..1
                                                                                                /note= "N-glycosylation site"
68..72
                                                                                                                                                                                                                                                                                                                          Location/Qualifiers
                                                                                                                                                                                                                                                                        /note= "signal peptide"
                                                 . 106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        11.7%; 26.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                            genetic disorder; transgenic animal; gene therapy
                                                                                                                                                                                                                       "N-myristoylation
                                                                      "N-glycosylation site"
                    "N-glycosylation site"
                                                                                                                                                                        "N-myristoylation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    47;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 191; DB 19;
Pred. No. 6.2e-12;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ₿
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mismatches 117;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ..
                                                                                                                                                                                                                            site"
                                                                                                                                                                           site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 325;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    48;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                173
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    16;
```

밁 Š 멍 δÃ B Ş 밁 Ş

망

```
05-JAN-2000;
18-FEB-2000;
18-FEB-2000;
22-FEB-2000;
22-FEB-2000;
01-MAR-2000;
02-MAR-2000;
20-MAR-2000;
                                                                                                                                                                                                                                                                               15-SEP-1999;
30-NOV-1999;
01-DEC-1999;
02-DEC-1999;
07-DEC-1999;
                                                                                                                                                                                                                                                                                                                               20-JUL-1999;
26-JUL-1999;
17-AUG-1999;
                                                                                                                                                                                                                                                                                                             08-SEP-1999;
15-SEP-1999;
                                                                                                                                                                                                                                                                                                                          01-SEP-1999;
                                                                                                                                                                                                                                                                                                                                                 15-JUN-1999;
                                                                                                                                                                                                                                                                                                                                                             22-MAY-2000;
                                                                                                                                                                                                                                                                                                                                                                                     WO200077037-A2
                                                                                                                                                                                                                                                                                                                                                                                                       Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                   Domain
                                                                                                                                                                                                         (GETH ) GENENTECH INC
                                                                                                                                                                                                                    99US-0169495.
2000WO-US00219.
2000WO-US04341.
2000WO-US04342.
2000WO-US05601.
2000WO-US05601.
2000WO-US05841.
2000WO-US05439.
2000WO-US03358.
2000WO-US13358.
                                                                                                                                                                                                                                                                                                                                                             2000WO-US14042
                                                                                                                                                                                                                                                                                      99WO-US28565
                                                                                                                                                                                                                                                                                             99WO-US28301
                                                                                                                                                                                                                                                                                                 99WO-US21547
99WO-US28313
                                                                                                                                                                                                                                                                                                              99WO-US21090
                                                                                                                                                                                                                                                                                                                   99WO-US20111.
99WO-US20594.
                                                                                                                                                                                                                                                                                                                               99US-0149396
                                                                                                                                                                                                                                                                                                                                           99US-0139695
99US-0145070
                                                                                                                                                                                                                                                                                                                                      99US-0145698
                                                                                                                                                                                                                                                                                                                                                                                                       /note= "1
                                                                                                                                                                                                                                                                                                                                                                                                                  /note= "1
222..245
                                                                                                                                                                                                                                                                                                                                                                                                 /note=
                                                                                                                                                                                                                                                                                                                                                                                                            "transmembrane domain"
                                                                                                                                                                                                                                                                                                                                                                                                 "N-myristoylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                        "N-glycosylation site"
```

Mood Paoni NF, Godowski PJ, Ashkenazi AJ, Ferrara N, WI, Zhang Roy MA, Fong S, Gao W, Gerber H, , Gurney AL, Kljavin IJ, Roy MA, Stewart TA, Tumas Baker KP, 2; Botstein DA, Desnoyers L, Gerritsen ME, Mather JP, Nap Ò Watanabe Napier MA, CK, Eaton Goddard Williams PM; Pan **A**

N-PSDB; 2001-050091/06. DB; AAC87060.

of related transmembrane polypeptide is of related polypeptides -Isolated nucleic acid molecule encoding a PRO polypeptide which is transmembrane polypeptide is useful for gene therapy and identifica identification þ

Claim 12; Fig 72; 244pp; English

The present sequence represents a human secreted and transmembrane CC polypeptide. The specification describes human polypeptides, designated CC pRO196, PRO444, PRO183, PRO185, PRO210, PRO215, PRO217, PRO242, PRO288, CC PRO365, PRO1361, PRO1308, PRO1183, PRO1272, PRO1419, PRO499, PRO7170, CC PRO248, PRO353, PRO1318, PRO1009, PRO9940, PRO533, PRO301, PRO187, CC PRO377, PRO4356, PRO246, PRO265, PRO941, PRO10096, PRO6003, CC PRO6004, PRO350, PRO2630 and PRO6309. The biological activity of cells CC can be modulated with agents that bind to these polypeptides, resulting CC in the death of the cells. The polynucleotides encoding these CC polypeptides are useful in the recombinant production of the colls. The polynucleotides encoding these CC polypeptides, as a hybridisation probe to screen libraries to isolate CC conjectured to the development and screening of therapeutically useful crease a fertile development and screening of therapeutically useful crease a fertile means of the polynucleotides can also be used in gene therapy e.g. to replace a defective gene

Sequence 325

11.78; Score 191; DB 22; Length 325;

26.6%;

```
SXCCCCXXX PTTXX
                                                                                                                                                                                                                                                                                                                                                              ğ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                δÃ
            Ş
                                                                                                                                                                                                                                                                                                        X PA X R
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 13
AAR71035
                                     Query Match
Best Local S
Matches 75
                                                                                                                                                                                                                                                                                 Cook JR, L.
                                                                                                                                                                                                Suppressing tumours in mammals with accessory factor 1 (AF-1) for interferon gamma, specifically induction of class I HLA antigens, including use of AF-1 DNA in gene therapy
                                                                                                                        The sequence is that of human interferon-gamma accessory factor-1. Incorporation of AF-1 into immune and tumour cells re-establishes normal function with elimination of malignant cells.
                                                                                                                                                                          Disclosure; Fig 21A; 114pp; English.
                                                                                                                                                                                                                                                   N-PSDB; AAQ84697.
                                                                                                                                                                                                                                                                WPI; 1995-106679/14.
                                                                                                                                                                                                                                                                                                                                                                                                   02-MAR-1995.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human IFN-gamma accessory factor-1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         11-OCT-1995 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAR71035
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAR71035 standard; Protein; 337
                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                   20-AUG-1993;
                                                                                                                                                                                                                                                                                                                                                                          22-AUG-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                            WO9505847-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Interferon-gamma; AF-1; tumour
                                                                                                                                                                                                                                                                                                                            (UYNE-) UNIV NEW JERSEY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         220
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   174
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        161 ngtdekfqitpqydfev-lrnlepwttycvqvrgflpdrnkagewsepvceqtthdetvp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  130
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Local Similarity 26.6 nes 77; Conservative
71 QGEYESLYTSHIWIPSSWCSLTEGPECDVTDDITATVPYNLRVRATLGSQTSAW-SILKH 129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ω
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         swmvavilmasv-fmvclallgcfsllwcvykktkyafsprnslpqhlk 267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ---LVLALFAFVGFMLILVVVPLF--VWKMGRLLQYSCCPVVVLPDTLK 276
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         tagylsyr----ifqdkcmnttltecdfs-slskygdhtlrvraefadehsdwvnitfc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     w-slgsw----lggcllvsalgmvpppenvrmnsvnfknilqwespafakg----nltf 52
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WTSLFMWFFYALIPCLLTDEVAILPAPQNLSVLSTNMKHLLMW-SPVIAPGETVYYSVEY 70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PGAEEHVKMVRSGGIPVHLETMEPGAAYCVKAQTFVKAIGXYSAFSQTECVE-VQGEAIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         pv--ddt11gppgmqvevladsl--hmrflapkieneyetwtmknvynswtynvqyw--k 160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PFNRNSTILTRPGMEIXKXGFHLVIELEDLGPQFE------FLVAYWXRE
                                      l Similarity
75; Conserv
                                                                                                                                                                                                                                                                                       Donnely RJ,
Schwartz B
                                                                                                  337
                                   Conservative
                                                                                                  ₹,
                                                                                                                                                                                                                                                                                                                                                   93US-0110119
                                                                                                                                                                                                                                                                                                                                                                           94WO-US09438
                                                                                                                                                                                                                                                                                        8
                                                11.0%;
26.1%;
                                                                                                                                                                                                                                                                                       Emanuel S, Soh J;
                                   Score 179.5;
Pred. No. 1.1e
42; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; Pred. No. 6.26
47; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A
                                                                                                                                                                                                                                                                                                   Kotenko
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         6.2e-12;
ches 117;
                                     1.1e-10;
ches 123;
                                                            DB 16;
                                                                                                                                                                                                                                                                                                   Ś
                                                                                                                                                                                                                                                                                                   Mariano
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
                                      Indels
                                                            Length
                                                                                                                                                                                                                                                                                                   X
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        48;
                                     47;
                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 173
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         219
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 232
                                      14;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         16;
```

Qy

11 IWTSLFMWFFYALIPCLLTDEVAILPAPONLSVLSTNMKHLLMWSPVIAPGET--VYYSV 68

123;

Indels

47;

Gaps

14;

6 lwslllllgvfaaaaaappdplsqlpapqhpkirlynaeqvlswepvalsnstrpvvyqv 65

Matches

Similarity

Conservative

밁

```
RESULT 14
AAR7578
ID AAR7577
XX
AAR7575
XX
AC AAR757
XX
DI 13-NOV
DI 13-NOV
DI 13-NOV
DI 15-JUN
XX
INTERF

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Qy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Вþ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Qy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       밁
                               Query Match
Best Local S
                                                                                                                                                                                                                                         The IFN-gamma receptor beta-subunit encoded by a cDNA clone derived from a human cDNA library is given in AAR75783. Recombinant beta-subunit, pref. with the transmembrane anchoring domain deleted or inactivated and with the cytoplasmic domain deleted, may be may be used to treat pathological conditions associated with endogenous reviews that the cytoplasmic domain deleted.
                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim
                                                                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Novel interferon gamma receptor beta chain polypeptide - treatment of inflammatory bowel disease and liver damage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 1995-224321/29
N-PSDB; AAQ90809.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (AGUE/) AGUET M.
(BOEH/) BOEHNI R.
(HEMM/) HEMMI S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           07-DEC-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      W09516036-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAR75783;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAR75783 standard; Protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Aguet M, Boehni R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   09-DEC-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          15-JUN-1995.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        interferon-gamma-antagonist.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Interferon-gamma receptor beta subunit;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   IFN-gamma receptor beta-subunit.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               13-NOV-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    222 ECVEVQGEA-IPLVLALFAFVGFMLILVVVP----LFVWKMGRLLQY 263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       122 lhsawvtmpwfqh--yrnvtvgppenievtpgegsliirfsspfdiadtstaffcyyvhy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  66
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       σ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          QTSAWSIL---KHPFNRNSTILTRPGMEIXKXGFHLVI-----ELEDLGPQFE-FLVAY 169
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                w--ekggiqqvkgpfrsnsi--sldnlkpsrvyclqvqaqllwnksnifrvghlsnis--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WXREPGAEEHVK-MVRSGGIPVHLETMEPGAAYCVKAQ-----TFVKAIGXYSAFSQT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           -cyetmadastelqqvilisvgtfsllsvlagacfflvlkyrgliky
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            qfkytdskwftadimsigvnctqitatec----dftaaspsagfpmdfnvtlrlraelga 121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           EYQGEYESLYTSHIWIPSSWCSLTEGPECDVTDDITATVP-----YNLRVRATLGS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    lwsllllgvfaaaaaappdplsqlpapqhpkirlynaeqvlswepvalsnstrpvvyqv
                                                                                                                                                                                                                                                                                                                                                                                                                                   6; Fig.5A; 86pp; English.
                                                                                                                                                                                                                   production.
                                                                                                                                                             337 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   93US-0164596
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               94WO-US14277
10.8%; Score 176.5; DB 1
25.8%; Pred. No. 2.3e-10;
ative 43; Mismatches 123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Hemmi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          337
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          huIFN;
                                                               DB 16; Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              279
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 for
                                                                  337;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       65
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               221
```

```
밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    á
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ş
 Query Match
Best Local Similarity
Matches 71; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SULT 15
28496
                                                                                                                          DNA encoding the water-soluble polypeptide with a high affinity for IFN-alpha and -beta is isolated by PCR, using appropriate oligonucleotides as primers and cloned cDNA as template. For example, bacteriophage lambda ZAP, containing the entire coding sequence of the IFN-alpha and -beta receptor (AAQ30533), was incubated with oligos AAQ30534 and AAQ30535. AAR28496 represents the complete receptor. AAR28495 lacks the transmembrane and cytoplasmic domains. Both forms bind IFN in the same way as antibodies so are immunosuppressants e.g. for treating autoimmune diseases and graft rejection. They lack the
                                                                                                                                                                                                                                                                                                                           Water soluble polypeptide(s) strongly bind interferon(s) alpha and beta - useful as immunosuppressants, for treating auto:immune diseases and transplant rejection
                                                                                                                                                                                                                                                                                            Claim 3; Fig 2; 58pp; English.
                                                                                                                                                                                                                                                                                                                                                                                              WPI; 1992-382110/46
N-PSDB; AAQ30533.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            W09218626-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence of a soulble form of the interferon (IFN) receptor with a high affinity for IFN-alpha and -beta.
                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Eid P,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              17-APR-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              17-APR-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          31-MAR-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAR28496 standard; Protein; 557
                                                                                                                                                                                                                                                                                                                                                                                                                                             Tovey M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (EUBI-) LAB EURO BIOTECHNOLOGIE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              29-OCT-1992.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Interferon receptor; alpha-interferon; beta-interferon
                                                                                                             toxic side-effects of known immunosuppressants such as steroids.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       222
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 122 lhsawvtmpwfqh--yrnvtvgppenievtpgegsliirfsspfdiadtstaffcyyvhy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      234 -cydtmadastelqqvilisvgtfsllsvlagacfflvlkyrgliky 279
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        170 WXREPGAEEHVK-MVRSGGIPVHLETMEPGAAYCVKAQ-----TFVKAIGXYSAFSQT 221
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      66
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  w--ekggiqqvkgpfrsnsi--sldnlkpsrvyclqvqaqllwnksnifrvghlsnis--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  QTSAWSIL---KHPFNRNSTILTRPGMEIXKXGFHLVI-----ELEDLGPQFE-FLVAY 169
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  EYQGEYESLYTSHIWIPSSWCSLTEGPECDVTDDITATVP-----YNLRVRATLGS 119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ECVEVQGEA-IPLVLALFAFVGFMLILVVVP----LFVWKMGRLLQY 263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 qfkytdskwftadimsigvnctqitatec----dftaaspsagfpmdfnvtlrlraelga
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gresser I,
                                                                                                                                                                                                                                                                                                                                                                                                                                             Uze G;
                                                                                  557 AA;
   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            91WO-FR00318
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              91WO-FR00318
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Lutfalla G,
10.0%; Score 163.5; DB 13; 22.0%; Pred. No. 1.1e-08; tive 54; Mismatches 115;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ₿
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Meyer F,
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mogensen KE;
 Indels
                            Length
83;
Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  121
```

17;

```
밁
                                                                              В
                                                                                                                   Ş
                                                                                                                                                               В
                                                                                                                                                                                                    Š
                                                                                                                                                                                                                                              밁
                                                                                                                                                                                                                                                                                     Ş
                                                                                                                                                                                                                                                                                                                                 밁
                                                                                                                                                                                                                                                                                                                                                                      Š
                                                                                                                                                                                                                                                                                                                                                                                                              밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ş
480
                                                                                 427
                                                                                                                                                                  371
                                        281
                                                                                                                     224 VEVQ-GEAIPLVLALFAFVGFMLILVVVPLFVWKMGRLLQYSCCPVVVLPDTLKITNS-- 280
                                                                                                                                                                                   166 LVAYWXREPGAEEHVKMVRSGGIPVHLETMEPGAAYCVKAQ--TFVKAIGXYSAFSQTEC : : | | | | | | | | | | | | | | |
                                                                                                                                                                                                                                                322
                                                                                                                                                                                                                                                                                                                                 268
                                                                                                                                                                                                                                                                                                                                                                          80
                                                                                                                                                                                                                                                                                                                                                                                                                                                       21
                                                                                                                                                                                                                                                                                                                         rnpgnhly---kwkqi---pdcenvkttqcvfpqnvfqkgiyllrvqasdgnntsfwsee 321
eyfseqplknlllstseeqiekc 502
                                      -----PQK--LISCRREEVDAC 295
                                                                              ektkpgntskiwl----ivgicialfalpfviyaaklflr--cinyvffp-slkpsssid 479
                                                                                                                                                           -iifwentsnaerkiiekkt---dvtvpnlkpltvycvkarahtmdeklnkssvfsdavc
                                                                                                                                                                                                                                        ikfdteiqafllppvfnirs-----lsdsfhiyigapkqsgntpviqdypliye- 370
                                                                                                                                                                                                                                                                                                                                                                   ----SHIWIPSSWCSLTEGPECDVTDDITATVPYN-----LRVRATLGSQTSAWS-- 125
                                                                                                                                                                                                                                                                                                                                                                                                            yspvhcikttvenelpppenievsvqnqnyvlkw-----dytyanmtfqvqwlhaflk 267
                                                                                                                                                                                                                                                                                                                                                                                                                                   YALIPCLLTDEVAILPAPQNLSYLSTNMKHLLMWSPVIAPGETVYYSVEYQGEYESLYT-
|: : |: | | | | | | : | | :: | :: :
                                                                                                                                                                                                                                                                                     -----ILKHPFNRNSTILTRPGMEIXKXGFHLVI-----ELEDLGPQFEF 165
                                                                                                                                                             426
                                                                                                                                                                                                                                                                                                                                                                                                                                                       79
```

Search completed: October 12, 2001, 16:09:56 Job time: 188 sec

4.

```
Title:
Perfect score:
Sequence:
Maximum DB seq length: 0
Maximum DB seq length: 200000000
                                                                                                                 Searched:
                                                                                                                                                                               Scoring table:
                                                                                                                                                                                                                                                                                                                                                            Run on:
                                                                                                                                                                                                                                                                                                                                                                                                     OM protein - protein search, using sw model
                                                               tal number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                            October 12, 2001, 16:09:33 ; Search time 11.2 Seconds (without alignments) 951.201 Million cell updates/sec
                                                                                                                                                                                                                        US-09-265-540E-2
1627
1 MQTFTMVLEEIWTSLFMWFF...................VDACATAVMSPEELLRAWIS 311
                                                                                                           93435 segs, 34255486 residues
                                                                                                                                                        BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GenCore version 4.5 Copyright (c) 1993 - 2000 Compugen Ltd.
```

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : SwissProt_39:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

æ

33	32	31	30	29	28	27	26	25	. 24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	80	7	6	5	4	ω	2		Result
86	86	86	87	88	88	88.5	89	89	92.5	95	96	96	96	97	99	114	114	114.5	119.5	121	121.5	125.5	125.5	130	136	157.5	162.5	164.5	170.5	178.5	178.5	191	Score
ა. ა	5.3	5. ω		5.4	5.4	5.4	5.5	5.5	5.7	5.8		5.9	5.9	6.0	6.1	7.0	7.0	7.0	7.3	7.4	7.5	7.7		8.0	8.4	9.7	10.0	10.1	10.5	11.0	11.0	11.7	Query Match L
227]	227 1	227 1	984]	985 1	902 1	1928 1	977 1	831 1	987 1	1447]	1447]	984 1	984 1	508 1	507 1	507]	295 1	292]	294 1	489 1	289 1	575 1	295 1	292]	578 1	560 1	557]	560 1	349]	590 1	337]	325]	Length DB
L COX:	COX	COX	EPB	L EP4B	LEPBI	Hd7	L EPA:	L PRLR_	L EPB	ָ בַּ בַּ	ָ ב ב ב	L EPB1	L EPB	LEPO	L EPO	L EPO	L TF_RAT	_ TF_	L TEL	ING	L TEL	110	_ 1E_	LEL	110	l INR1	L INR1_	L INR1_	_110S_	L INR1_	l INGS_	11105	a ID
COX2_RABIT	COX2_LYCPI	COX2 HAPGR	EPB1_CHICK	XENLA		RAT	EPA2_MOUSE	CHICK	EPB4_HUMAN	DCC_HUMAN	DCC_MOUSE	LRAT	EPB1_HUMAN	EPOR_HUMAN	EPOR_RAT	EPOR_MOUSE	RAT	_BOVIN	TF_MOUSE	INGR_HUMAN	TF_CAVPO	I10R_MOUSE	_HUMAN	_RABIT	I10R_HUMAN		L_HUMAN	L_BOVIN	S_MOUSE	LMOUSE	S_HUMAN	S_HUMAN	· · · · · · · · · · · · · · · · · · ·
P98049	047674	P98034	007494	091694	Q91736	002401	Q03145	Q04594	P54760	P43146	P70211	P09759	P54762	P19235	Q07303	P14753	P42533	P30931	P20352	P15260	Q9jlu8	Q61727	P13726	P24055	Q13651	028589	P17181	204790	261190	P33896	P38484	Q0833 4	Description
oryctolagus	lycaon pict	hapalemur	gallus gall		xenopus 1	rattus norv	mus musculu		homo sapien	homo sapien	mus musculu	rattus norv	homo sapien	homo sapien	rattus norv	mus musculu	rattus norv		mus musculu	homo sapien	cavia porce	mus musculu	homo sapien				0			mus musculu	homo sapien	۳.	
us	Ç,	Q		lae	lae	rv	lu	11	en	en	lu	۲V	en	en	۲V	lu	۲V	S	lu	en	Ce	lu L	en	su	en	ຜ	en	CS	lu	lu	en	en	1

86 5.3 379 1 COS4_YEAST 85.5 5.3 1630 1 PTPL_DROME 85 5.2 227 1 COX2_CERS1 85 5.2 227 1 COX2_DAMPP 85 5.2 227 1 COX2_SHIUN 85 5.2 227 1 COX2_SHEEP 84.5 5.2 862 1 IL2S_HUMAN 84 5.2 227 1 COX2_CAPHI 84 5.2 227 1 COX2_CAPHI 84 5.2 227 1 COX2_HORGE 84 5.2 227 1 COX2_HORGE 84 5.2 227 1 COX2_HORGE 84 5.2 227 1 COX2_PROTA	5.3 379 5.3 1230 5.2 227 5.2 227	45
379 1630 1 227 1 227 1 227 1 227 1 227 1 862 227 1 227 1 227 1 227 1 227 1 227 1 227 1 227 1 227 1 227 1 227 1 227 1 227 1 227	379 1 COS4_YEAST P43542 1630 1 PTP1LDROME P33992 227 1 COX2_CERSI 003851 227 1 COX2_CERSI 095679 227 1 COX2_SHEEP 956679 227 1 COX2_SHEEP 099665 227 1 COX2_CAPHI 099665 227 1 COX2_HOUAN 037430 227 1 COX2_HOUAS P32478 227 1 COX2_HOUAS P32478 227 1 COX2_HORSE P48660 227 1 COX2_PROTA P98042	84
	1 COS4_YEAST P43542 1 PTP1_DROME P35992 1 COX2_CERS1 003851 1 COX2_DAMPP P50679 1 COX2_SHEEP 096659 1 112S_HUMAN 099665 1 COX2_CAPHI 099665 1 COX2_BOUAS P924730 1 COX2_HORSE P48660 1 COX2_HORSE P48660 1 COX2_PROTA P98042	5:2
1 COS4_YEAST 1 COS4_YEAST 1 COX2_CERSI 1 COX2_CAMPP 1 COX2_SHEEP 1 I12S_HUMAN 1 COX2_CAPHI 1 COX2_CAPHI 1 COX2_CAPHI 1 COX2_CAPHI 2 COX2_BQUAS 1 COX2_BQUAS	P43542 P33992 O03851 P56679 O96150 O9650 O97430 P92478 P82478 P8662 P98662	227
COS4_YEAST PTPJ_DROME COX2_DROME COX2_DRAMP COX2_RHIUN COX2_SHEEP I12S_HUMAN COX2_CAPHI COX2_BQUAS COX2_BQUAS COX2_BQUAS COX2_BQCOSE COX2_PROTA	P43542 P33992 003851 003851 P56679 096190 07430 037430 P32478 P82478 P82662 P98662	۳
		COX2_PROTA

ALIGNMENTS

DR DR	ននននននន	222222222222222222222222222222222222222	RP RA	R R T R R R R R R R R R R R R R R R R R	RESULT IIOS_H ID S_H AC Q DT 0 DT 0 DT 0 DT 0 OC N OC M
EMBL; 217227; CAA78933.1; EMBL; U08988; AAA88872.1; PIR; A47003; A47003. HSSP; P13726; 1DAN.	This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).	"Light Lication and functional characterization of a second chain of the interleukin-10 receptor complex."; EMBO J. 16:5894-5903(1997). -i. FUNCTION: RECEPTOR FOR IL-10. SERVES AS AN ACCESSORY CHAIN ESSENTIAL FOR THE ACTIVE II-10 RECEPTOR COMPLEX AND TO INITIATE IL-10-INDUCED SIGNAL TRANSDUCTION EVENTS. -i. SUBCELLULAR LOCATION: TYPE I MEMBRANE PROTEIN. -i. SUBCELLULAR LOCATION: TYPE I MEMBRANE PROTEIN. -i. SIMILARITY: BELONGS TO THE CLASS II CYTOKINE FAMILY OF RECEPTORS.	UENCE FROM N.A. LINE-96054036; PubMed-7563119; falla G., McInnis M.G., Antonarakis S.E., Uze G.; falla G., WcInnis M.G., Antonarakis S.E., Uze G.; ructure of the human CRFB4 gene: comparison with its IFNAR ghbor."; Mol. Evol. 41:338-344(1995). RACTERIZATION. RACTERIZATION. LINE-97459774; PubMed-9312047; LINE-97459774; PubMed-9312047; enko S.V., Krause C.D., Izotova L.S., Pollack B.P., Wu W., Liki S., Liki S., Liki G., Liki S., Li	SEQUENCE FROM N.A. SEQUENCE FROM N.A. TISSUE-Fetal brain; MEDLINE-93300510; PubMed-8314576; MEDLINE-93300510; PubMed-8314576; Lutfalla G., Gardiner K., Uze G.; "A new member of the cytokine receptor gene family maps on chromosome 21 at less than 35 kb from IFNAR."; Genomics 16:366-373(1993).	RESULT 1 I10S_HUMAN STANDARD; PRT; 325 AA. AC Q08334; AC Q08334; DT 01-FEB-1995 (Rel. 31, Created) DT 01-FEB-1995 (Rel. 31, Last sequence update) DT 01-CT-2000 (Rel. 40, Last annotation update) DT 01-CT-2000 (Rel. 40, Last annotation update) DE INTERLEUKIN-10 RECEPTOR BETA CHAIN PRECURSOR (IL-10R-B) (IL-10R2) DE (CYTOKINE RECEPTOR CLASS-II CRF2-4). GN IL10RB OR CRFB4. OS Homo sapiens (Human). CS Homo sapiens (Human). CC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; CC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. OX NCBI_TaxID-9606;

```
RT RAPPERARE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STATE THE THE THE STATE OF THE 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ъ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Qy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Best Loc
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        hery Match
                                                                                                                                                                                                                                                                                                                                                                                        P38484;

P38484;

Ol-OCT-1994 (Rel. 30, Created)
Ol-OCT-1994 (Rel. 30, Last sequence update)
Ol-OCT-2000 (Rel. 40, Last annotation update)
INTERFERON-GAMMA RECEPTOR BETA CHAIN PRECURSOR (INTERFERON-GAMMA RECEPTOR BETA CHAIN PRECURSOR (INTERFERON-GAMMA TRANSDUCER-1).
                                                                                                               TISSUE=Lung fibroblast;
MEDLINB=94170380; PubMed=8124716;
Soh J., Donnelly R.J., Kotenko S., Mariano T.M., Cook J.R.,
Wang N., Emanuel S.L., Schwartz B., Miki T., Pestka S.;
"Identification and sequence of an accessory factor required activation of the human interferon gamma receptor.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CONFLICT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DISULFID DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DOMAIN
DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CHAIN DOMAIN
  SEQUENCE OF 1-24 FROM N.A.
MEDLINE=97067142; PubMed=8910544;
Rhee S. Ebensperger C., Dembic Z
"The structure of the gene for the
                                                                                                                                                                                                                                SEQUENCE FROM N.A.
TISSUE=Lung fibroblast;
                                                                                                                                                                                                                                                                                                                     Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                HOMO Sapiens (Human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      INGS_HUMAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CONFLICT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            220
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    174
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    130
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  71
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               123889;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               QGEYESLYTSHIWIPSSWCSLTEGPECDVTDDITATVPYNLRVRATLGSQTSAW-SILKH 129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          W-SLGSW----LGGCLLVSALGMVPPPENVRMNSVNFKNILQWESPAFAKG-----NLTF
                                                                                                        76:793-802(1994).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SWMYAVILMASV-FMVCLALLGCFSLLWCYYKKTKYAFSPRNSLPQHLK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ---LVLALFAFVGFMLILVVVPLF--VWKMGRLLQYSCCPVVVLPDTLK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NGTDEKFQITPQYDFEV-LRNLEPWTTYCVQVRGFLPDRNKAGEWSEPVCEQTTHDETVP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PGAEEHVKMVRSGGIPVHLETMEPGAAYCVKAQTFVKAIGXYSAFSQTECVE-VQGEAIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PV--DDTIIGPPGMQVEVLADSL--HMRFLAPKIENEYETWTMKNVYNSWTYNVQYW--K
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PFNRNSTILTRPGMEIXKXGFHLVIELEDLGPQFE------FLVAYWXRE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TAQYLSYR----IFQDKCMNTTLTECDFS-SLSKYGDHTLRVRAEFADEHSDWVNITFC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WTSLFMWFFYALIPCLLTDEVAILPAPQNLSVLSTNMKHLLMW-SPVIAPGETVYYSVEY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Similarity
Ebensperger C., Dembic scture of the gene for t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          11.7%;
nilarity 26.6%;
Conservative 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        49
68
102
161
124
269
274
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      20
20
221
243
113
188
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     B,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STANDARD;
                                                                                                                                                                                                                                                                                                                       Chordata;
Primates;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        19
325
220
242
325
325
205
209
49
209
102
161
124
273
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   37011
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Glycoprotein; Signal.
POTENTIAL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              47;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    N-LINKED (GLCNAC...) (P.
N-LINKED (GLCNAC...) (P.
N-LINKED (GLCNAC...) (P.
N-LINKED (GLCNAC...) (P.
A -> D (IN REF. 2).
FLGHP -> VGNME (IN REF. 2
MISSING (IN REF. 2).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FIBRONECTIN TYP
BY SIMILARITY.
BY SIMILARITY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 191; DB 1;
Pred. No. 8e-10;
7; Mismatches 117
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   POTENTIAL.
CYTOPLASMIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          EXTRACELLULAR (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              INTERLEUKIN-10 RECEPTOR BETA CHAIN
                                                                                                                                                                                                                                                                                                                     Craniata; Ve
Catarrhini;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ISSING (IN REF. 2).
66706C79F8514B23 CRC64;
                       Z.,
    second
                     Pestka
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   337
                                                                                                                                                                                                                                                                                                                                        Vertebrata;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   À
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE-III.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (POTENTIAL).
  a S.;
chain
                                                                                                                                                                                                                                                                                                                       Hominidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              117;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 325;
  of.
  the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (POTENTIAL).
(POTENTIAL).
(POTENTIAL).
(POTENTIAL).
                                                                                                                                                                                                                                                                                                                                        Euteleostomi;
                                                                                                                                                                                                                                                                                                                       Homo
  human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 276
                                                                                                                                                 for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                173
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            52
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            16;
```

```
INR1_MOUSE
                                                                                RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local
INR1_MOUSE
P33896;
01-FEB-1994
01-FEB-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CARBOHYD
CARBOHYD
CARBOHYD
VARIANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CARBOHYD
CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              interferon gamma receptor.";
J. Biol. Chem. 271:28947-28952(1996).
-i- FUNCTION: PART OF THE RECEPTOR FOR INTERFERON SIGNAL TRANSDUCTION. THIS ACCESSORY FACTOR IS THE IFN-CAMMA SIGNAL TRANSDUCTION PATHWAY AND THE THE TEN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TRANSMEM
DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 This SWISS-PROT entry is copyright. It is produced through between the Swiss Institute of Bioinformatics and the Entrepean Bioinformatics Institute. There are no restructe by non-profit institutions as long as its content
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                EMBL; U05875; AAA16955.1;
EMBL; U05877; AAA16956.1;
EMBL; U68755; AAC52066.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CHAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Receptor; Transmembrane;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Pfam; PF00041; fn3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MIM; 147569;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    modified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   InterPro;
                                                                                                                                                                                                   180
                                                                                                                                                                                                                                                                    122
                                                                                                                                                                                                                                                                                                   120
                                                                                                                                    234
                                                                                                                                                                   222
                                                                                                                                                                                                                                                                                                                                                                                                                                      11
                                                                                                                                                                                                                                                                                                                                      99
                                                                                                                                                                                                                                                                                                                                                                      69
                                                                                                                                                                                                                                                                                                                                                                                                     σ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                INTERACT WITH GAF, JAK1, AND/OR JAK2.
SUBCELLULAR LOCATION: TYPE I MEMBRANE PROTEIN.
SIMILARITY: CONTAINS 2 FIBRONECTIN TYPE III-LIKE DOMAINS.
SIMILARITY: BELONGS TO THE CLASS II CYTOKINE FAMILY OF RECEPTORS.
                                                                                                                                                                 ECVEVQGEA-IPLVLALFAFVGFMLILVVVP----LFVWKMGRLLQY
                                                                                                                                                                                                 W--EKGGIQQVKGPFRSNSI--SLDNLKPSRVYCLQVQAQLLWNKSNIFRVGHLSNIS--
                                                                                                                                                                                                                    WXREPGAEEHVK-MVRSGGIPVHLEIMEPGAAYCVKAQ-----TFVKAIGXYSAFSQT 221
                                                                                                                                                                                                                                                                 LHSAWVTMPWFQH--YRNVTVGPPENIEVTPGEGSLIIRFSSPFDIADTSTAFFCYYVHY
                                                                                                                                                                                                                                                                                                  QTSAWSIL---KHPFNRNSTILTRPGMEIXKXGFHLVI-----ELEDLGPQFE-FLVAY 169
                                                                                                                                                                                                                                                                                                                                    QFKYTDSKWFTADIMSIGVNCTQITATEC----DFTAASPSAGFPMDFNVTLRLRAELGA
                                                                                                                                                                                                                                                                                                                                                       EYQGEYESLYTSHIWIPSSWCSLTEGPECDVTDDITATVP-----YNLRVRATLGS 119
                                                                                                                                                                                                                                                                                                                                                                                                   LWSLLLLLGVFAAAAAAPPDPLSQLPAPQHPKIRLYNAEQVLSWEPVALSNSTRPVVYRV
                                                                                                                                                                                                                                                                                                                                                                                                                                  IWTSLEMWEFYALIPCLLTDEVAILPAPQNLSVLSTNMKHLLMWSPVIAPGET--VYYSV 68
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   209950;
                                                                                                                                  -CYETMADASTELQQVILISVGTFSLLSVLAGACFFLVLKYRGLIKY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             non-profit institutions as long and this statement is not removed.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  IPR001777; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AA;
                                                 STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  27
337
247
268
337
56
85
110
110
137
219
231
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  37834
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    11.0%;
26.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Glycoprotein; Signal;
POTENTIAL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     42;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CYTOPLASMIC (POTENTIAL).

N-LINKED (GLCNAC...) (...

N-LINKED (GLCNAC...) (...

N-LINKED (GLCNAC...) (...

N-LINKED (GLCNAC...) (...)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  N-LINKED
R -> Q.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 178.5;
Pred. No. 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /FTId-VAR_002718.
18C61B10AD90E509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   N-LINKED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   POTENTIAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 EXTRACELLULAR (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  INTERFERON-GAMMA
                                                 PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GLCNAC...
GLCNAC...
GLCNAC...
GLCNAC...
                                                 590
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (GLCNAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1.1e-08;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 There are no restrictions ng as its content is in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     123;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Usage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RECEPTOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Repeat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AN INTEGRAL F
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (POTENTIAL)
(POTENTIAL)
(POTENTIAL)
(POTENTIAL)
(POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ý
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (POTENTIAL)
                                                                                                                                  279
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BETA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EMBL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REQUIRED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    a collaboration
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     47;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PART
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    commercia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FOR
                                                                                                                                                                                                                                                                                                                                                                                                     65
                                                                                                                                                                                                                                                                                                                                    121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     no
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     14;
```

3385

(Rel.

28,

Created)

Last sequence update)

В Ş Вр Ş В Ş Ъ Ş В δÃ STITE TITE TO BE RESERVED TO BE RESERVED.

```
Matches
                                                                                                                                                                                                                                                                                               Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                   CARBOHYD
CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CARBOHYD
CARBOHYD
CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TRANSMEM
DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DISULFID DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               or send a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             EMBL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Proc.
                                                                                                                                                                                                                                                                                                                                                                                                 CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               modified and this statement is not removed.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      between
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Uze G., Lutfalla G.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Rodentia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CHAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          in homospecific or heterospecific background.";
Proc. Natl. Acad. Sci. U.S.A. 89:4774-4778(1992).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE=92262522; PubMed=1533935;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NCBI_TaxID=10090;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mus musculus (Mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    IFNAR1 OR IFNAR OR IFAR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      30-MAY-2000 (Rel. 39,
INTERFERON-ALPHA/BETA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Behavior of a cloned murine interferon alpha/beta
                                                                                                       121
                                                                                                                                        256
                                                                                                                                                                                                          197
                                                                                                                                                                        63
                                                                                                                                                                                                                                                                                              Local
                                                                                                                                                                                                                                              w
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SUBUNITS THEMSELVES.

SUBCELLULAR LOCATION: TYPE I MEMBRANE PROTEIN.

SIMILARITY: CONTAINS 2 FIBRONECTIN TYPE III-LIKE DOMAINS.

SIMILARITY: BELONGS TO THE CLASS II CYTOKINE FAMILY OF RECEPTORS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2. Natl. Acad. Sci. U.S.A. 89:4774-4778(1992).
FUNCTION: RECEPTOR FOR INTERFERONS ALPHA AND BETA. BINDING TO
I IFNS TRIGGERS TYROSINE PHOSPHORYLATION OF A NUMBER OF PROTEI
INCLUDING JAKS, TYK2, STAT PROTEINS AND IFN-R ALPHA-AND BETA-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   European
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SWISS-PROT entry is copyright. It is produced through een the Swiss Institute of Bioinformatics and the Event Buropean Bioinformatics Institute. There are no restroy by non-profit institutions as long as its content
TKISMEKDGP-EFTLKNLQPLTVYCVQARVLFRALLNKTSNFSEKLCEKTRPGSFSTIWI
                                                                                                                                                                                                                                          TFTMVLEEIWTSLFMWFFYALIPCLLTDEVAILPAPQNLSVLSTNMKHLLMWSPVIAPGE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MGI:107658;
                                 EHVKMVRSGGIPVHLETMEPGAAYCVKAQTFVKA-IGXYSAFSQTECVEVQGEAIPLVLA
                                                                                                     TSAWSILKHPFNRNSTILTRPGMEIXKXGFHLVIEL---EDLGPQFEFLVAYWXREPGAE
                                                                                                                                       VLFRAQWLPGYSKSSSGSHSDKWKPIPTCANVQTTHCVFSQDTVYTGTFFLHVQASEGNH
                                                                                                                                                                        TVYYSVEYQGEYESLYTSHI--WIPSSWCSLTEGPECDVTDDITATVPYNLRVRATLGSQ
                                                                                                                                                                                                        TYCLEVKAIHPSLKKHSNYSTVQCISTTVANKMPVPGNLQVDAQGKSYVLKWD-YIASAD
                                                                   TSFWSEEKFIDSQKHILPPPPVITVTAMSDTLLVYVNCQDSTCDGLNYEIIFW--ENTSN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             M89641; AAA37890.1;
                                                                                                                                                                                                                                                                              76; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             s requires a license agreement (See http://www.isb-sib.ch/announce/an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Transmembrane;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        27
430
450
78
                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                        429
590
86
220
220
43
109
119
1181
214
314
314
314
314
314
314
317
409
409
409
409
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ifnar.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            590
                                                                                                                                                                                                                                                                                            11.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Bandu M.T., Proudhon D.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Last annotation update)
RECEPTOR ALPHA CHAIN PRECURSOR (IFN-ALPHA-REC).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Glycoprotein; Signal POTENTIAL.
                                                                                                                                                                                                                                                                                                                                                                 Œ,
                                                                                                                                                                                                                                                                              63;
                                                                                                                                                                                                                                                                            Score 178.5; I
Pred. No. 2.1e
3; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                               N-LINKED
N-LINKED
                                                                                                                                                                                                                                                                                                                                                                                                                                                 N-LINKED
                                                                                                                                                                                                                                                                                                                                                             N-LINKED (GLCNAC...) (P
N-LINKED (GLCNAC...) (P
N-LINKED (GLCNAC...) (P
N-LINKED (GLCNAC...) (P
7EC6DFF370185D3A CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   N-LINKED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      N-LINKED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      POTENTIAL.
CYTOPLASMIC (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      EXTRACELLULAR (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        INTERFERON-ALPHA/BETA RECEPTOR ALPHA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Craniata; Vertebrata; Euteleostomi; Sciurognathi; Muridae; Murinae; Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SIMILARITY
SIMILARITY
                                                                                                                                                                                                                                                                                                                                                                                                                               (GLCNAC.
(GLCNAC.
(GLCNAC.
(GLCNAC.
(GLCNAC.
                                                                                                                                                                                                                                                                                            .1e-08;
                                                                                                                                                                                                                                                                                                              DB 1;
                                                                                                                                                                                                                                                                               163;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Usage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mogensen K.E.;
                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                          Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           receptor
                                                                                                                                                                                                                                                                                                                                                                                               (POTENTIAL).
(POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                               (POTENTIAL).
(POTENTIAL).
(POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 уd
                                                                                                                                                                                                                                                                                                                                                                               (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Murinae; Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 restrictions
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   and
                                                                                                                                                                                                                                                                                                               1 590;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EMBL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   is
                                                                                                                                                                                                                                                                              29;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PROTEINS
BETA-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           expressed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  collaboration
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   outstation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    in
                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   commercial
                                                                                                                                                                        120
                                                                                                                                                                                                                                            62
                                                                                                     177
                                                                                                                                     315
                                                                                                                                                                                                          255
                                                                   373
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   9
                                                                                                                                                                                                                                                                            13;
```

Ş

밁

Ş

24 64 64

밁

```
SO THE TEST OF THE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 4
I10S_MOUSE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         맑
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Q
                  CARBOHYD
CARBOHYD
CARBOHYD
                                                                           DOMAIN
DISULFID
DISULFID
CARBOHYD
                                                                                                                                                                                                                                              Receptor;
SIGNAL
                                                                                                                                                              DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                 use by non-profit institutions as long modified and this statement is not removed.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    This
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A. MEDLINE=97199375; PubMed=9047351; Gibbs V.C., Pennica D.;
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                 EMBL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          between the Swiss Institute of Bioinformatics and t
the European Bioinformatics Institute. There are no
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               J. Exp. Med. 187:571-578(1998).
-!- FUNCTION: RECEPTOR FOR IL-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Spencer S.D., Di Marco
Ryan A.M., Sordat B., (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      01-OCT-2000
01-OCT-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Q61190;
01-OCT-2000
                                                                                                                                                                                   TRANSMEM
                                                                                                                                                                                                      DOMAIN
                                                                                                                                                                                                                           CHAIN
                                                                                                                                                                                                                                                                                        Piam; PF00041;
                                                                                                                                                                                                                                                                                                                                InterPro;
                                                                                                                                                                                                                                                                                                                                                   MGD; MGI:109380;
                                                                                                                                                                                                                                                                                                                                                                                                              or send
                                                                                                                                                                                                                                                                                                                                                                                                                                 entities requires a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEDLINE=98130620; PubMed=9463407;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CHARACTERIZATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gene 186:97-101(1997).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   proteins
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NCBI_TaxID=10090;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mus musculus (Mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 INTERLEUKIN-10 RECEPTOR BETA CHAIN PRECURSOR
                                                                                                                                                                                                                                                                                                         InterPro;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   "The orphan receptor CRF2-4 is an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CRF2-4: isolation of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           IL10RB OR CRFB4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (CYTOKINE RECEPTOR CLASS-II CRF2-4).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      IIOS_MOUSE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         490
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 290
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 237
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FUNCTION: RECEPTOR FOR IL-10. SERVES AS AN ACCESSORY CHAIN ESSENTIAL FOR THE ACTIVE IL-10 RECEPTOR COMPLEX AND TO INITIATE IL-10-INDUCED SIGNAL TRANSDUCTION EVENTS.
SUBCELLULAR LOCATION: TYPE I MEMBRANE PROTEIN.
SIMILARITY: CONTAINS 2 FIBRONECTIN TYPE III-LIKE DOMAINS.
SIMILARITY: BELONGS TO THE CLASS II CYTOKINE FAMILY OF RECEPTORS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   receptor."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SWISS-PROT entry is copyright.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         HTERCFIIENTDTVAVEVKHAPEEDLRKYSS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ITGLGVVFFSVMVLYALRSVWK---YLCHVCFPPLKPPRSIDEFFSEPPSKNLVLLTAEE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LFAF-VGFMLILVVVPL-FVWKMGRLLQYSCCPVVVLPDTLK--ITNSPQK---LISCRR
                                                                                                                                                                                                                                                                                                                                                                    U53696; AAC53062.1;
                                                                                                                                                                                                                                                                                                                                                                                                       s requires a license agreement (S an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                      IPR000282;
IPR001777;
                                                                                                                                                                                                                                                                 Transmembrane;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (Rel. 40, Last sequence update)
                     199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 EEVDACATAVM-SPEELLRAWIS
                                                                                                                                                                                                                                                                                        fn3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STANDARD
                                                                                                                                                                                                                                                                                                                                                 1110rb.
                  349
220
241
349
305
205
209
49
102
161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Chordata;
Rođentia;
39774
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gibbs V.C.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      cDNA clones encoding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ŧ.,
                                                                                                                                                                                                                                                              Glycoprotein; Signal.
Æ.
              BY SIMILARITY.
BY SIMILARITY.
N-LINKED (GLCNAC. ..) (
N-LINKED (GLCNAC. ..) (
N-LINKED (GLCNAC. ..) (
N-LINKED (GLCNAC. ..)
                                                                                                                                      CYTOPLASMIC FIBRONECTIN
                                                                                                                                                                                POTENTIAL
                                                                                                                                                                                                 INTERLEUKIN-10 RECEPTOR BE EXTRACELLULAR (POTENTIAL).
                                                                                                                                                                                                                                                POTENTIAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Craniata; Vertebrata; I
Sciurognathi; Muridae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRT;
58BA4F6B86330A39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        J., Pitts-Meek
Aguet M.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     essential subunit of the interleukin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               It is produced through
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 311
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      349
                                                                                                                                                                                                                                                                                                                                                                                                                               (See http://www.isb-sib.ch/announce/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A
                                                                                                                                           TYPE-III.
                                                                                                                                                           (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    as its content
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        the
                                                                                                                                                                                                                                                                                                                                                                                                                                               Usage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (IL-10R-B) (IL-10R2)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        hu≡an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            and the
CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           s.,
                (POTENTIAL).
(POTENTIAL).
                                                                             (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                 РΑ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Euteleostomi;
                                                                                                                                                                                                                        BETA CHAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Bauer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Murinae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       he EMBL outstation restrictions on i
                                                                                                                                                                                                                                                                                                                                                                                                                                                    and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        mouse
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   a collaboration
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                X
                                                                                                                                                                                                                                                                                                                                                                                                                                                    for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                 in no way
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         489
```

```
Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                         Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     õ
     8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Q04790;
01-OCT-1993
01-FEB-1994
01-NOV-1997
                                                                This SWISS-PROT entry is copyright. It is produced through a collab between the Swiss Institute of Bioinformatics and the EMBL outset the European Bioinformatics Institute. There are no restrictions use by non-profit institutions as long as its content is in modified and this statement is not removed. Usage by and for comentities requires a license agreement (See http://www.isb-sib.ch/an or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                  MEDLINE-93305725; PubMed-8318540;
Lim J.-K., Langer J.A.;
"Cloning and characterization of a bovine alpha interferon receptor.";
"Cloning and characterization of a bovine alpha interferon receptor.";
Biochim. Biophys. Acta 1173:314-319(1993).
-i- FUNCTION: RECEPTOR FOR INTERPERONS ALPHA AND BETA. BINDING TO TYPE
I IFNS TRIGGERS TYROSINE PHOSPHORYLATION OF A NUMBER OF PROTEINS
INCLUDING JAKS, TYK2, STAT PROTEINS AND IFN-R ALPHA-AND BETA-
EMBL; X68443; CAA48484.1;
EMBL; L06320; AAA02571.1;
PIR; S33770; S33770.
                                                                                                                                                                                                                                                                                                                                                                                                                           Mouchel-Vielh E., Lutfalla G., Mogensen K.E., Uze G.; "Specific antiviral activities of the human alpha interferons determined at the level of receptor (IFNAR) structure."; FEBS Lett. 313:255-259(1992).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TISSUE=Lung;
MEDLINE=93076908; PubMed=1446745;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Bos taurus (Bovine).
Eukaryota; Metazoa; Ch
Mammalia; Eutheria; Ce
Bovidae; Bovinae; Bos.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              01-CCT-1993 (Rel. 27, Created)
01-FEB-1994 (Rel. 28, Last sequence update)
01-NOV-1997 (Rel. 35, Last annotation update)
INTERFERON-ALPHA/BETA RECEPTOR ALPHA CHAIN PRECURSOR (IFN-ALPHA-REC).
                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NCBI_TaxID=9913;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  IFNAR1 OR IFNAR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    INR1_BOVIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       165
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        224
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         75
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            _
                                                                                                                                                                                                SUBCELLULAR LOCATION: TYPE I MEMBRANE PROTEIN.
SIMILARITY: CONTAINS 2 FIBRONECTIN TYPE III-LIKE DOMAINS.
SIMILARITY: BELONGS TO THE CLASS II CYTOKINE FAMILY OF RECEPTORS
                                                                                                                                                                                                                                                       SUBUNITS THEMSELVES.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LIPC-----LLTDEVAILPAPQNLSVLSTNMKHLLMWSPVIAPGETVYYSVEYQGEY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AIILIVSVLVVFLFLLGCFVV---LWLIYKKTKHTFRSGTSLPQHLK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AIPLVLALFAFVGFMLILVVVPLFVWKMGRLLQYSCCPVVVLPDTLK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       EKFQVVSPYDSEV-LRNLEPWTTYCIQVQGFLLDQNRTGEWSEPICERTGNDEITPSWIV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      EHVKMVRSGGIPVHLETMEPGAAYCVKAQTFVKAIGXYSAFSQTECVEVQGE-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       EDTIIGPPEMQIESLAESL -- HLRFSAPQIENEPETWTLKNIYDSWAYRVQYW -- KNGTN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NSTILTRPGMEIXKXGFHLVIELEDLGPQFE-----FLVAYWXREPGAE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RS-FQDH-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ESLYTSHIWIPSSWCSLTEGPECDVTDDITATVPYNLRVRATLGSQTSAW-SILKHPFNR 133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MAPCVAGWLGGFLLVPALGMIPPPEKVRMNSVNFKNILQWEVPAFPKTNLTFTAQYE-SY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           67;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      -CKRTASTQCDFS-HLSKYGDYTVRVRAELADEHSEWVNVTFCPV--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Chordata; Craniata; Vertebrata; Eute Cetartiodactyla; Ruminantia; Pecora;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          10.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         47;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 170.5; DB 1
Pred. No. 5.8e-08;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  560
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           120;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     276
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            349;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Bovoidea;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           53;
                                                                                                                                                                  a collaboration
                                                                                                                                                  outstation
                                                                                                                                                                                                                                                                                                                                                                                                                                                             are
                                                                                   .ch/announce/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       164
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         74
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      229
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        108
                                                                                                                   ö
                                                                                                                                    9
                                                                                                                 way
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           13;
```

```
RESULT
INR1_H
                                                                                                                                                                                                                                          Q
                                                                                                                                                                                                                                                                 ₽
                                                                                                                                                                                                                                                                                  δÃ
                                                                                                                                                                                                                                                                                                         밁
                                                                                                                                                                                                                                                                                                                            Š
                                                                                                                                                                                                                                                                                                                                                   밁
                                                                                                                                                                                                                                                                                                                                                                      Ş
                                                                                                                                                                                                                                                                                                                                                                                          В
                                                                                                                                                                                                                                                                                                                                                                                                             οy
                                                                                                                                                                                                                                                                                                                                                                                                                                    밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Qγ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
                                                                                                                                              INR1_HUMAN
P17181;
01-AUG-1990
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CARBOHYD
CARBOHYD
CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CARBOHYD
CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CARBOHYD
CONFLICT
                                                                                                                        01-AUG-1990 (Rel. 15,
01-AUG-1990 (Rel. 15,
01-OCT-2000 (Rel. 40,
MEDLINE=90124632; PubMed=2153461;
MEDLINE=90124632; PubMed=2153461;
Uze G., Lutfalla G., Gresser I.;
"Genetic transfer of a functional human interferon alpha receptor
into mouse cells: cloning and expression of its cDNA.";
                                                                       Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                            Homo
                                                                                                                                                                               HUMAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CHAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Pfam; PF00041; fn3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Receptor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     InterPro;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PIR; S27387;
                                                             NCBI_TaxID=9606
                                                                                                      IFNAR1 OR IFNAR
                                                                                                                                                                                                                         499
                                                                                                                                                                                                                                                                 443
                                                                                                                                                                                                                                                                                     235
                                                                                                                                                                                                                                                                                                           386
                                                                                                                                                                                                                                                                                                                               181
                                                                                                                                                                                                                                                                                                                                                   326
                                                                                                                                                                                                                                                                                                                                                                        132
                                                                                                                NTERFERON-ALPHA/BETA
                                                                                                                                                                                                                                            291
                                                                                                                                                                                                                                                                                                                                                                                           268
                                                                                                                                                                                                                                                                                                                                                                                                                                    215
                                                                                                                                                                                                                                                                                                                                                                                                               81
                                                                                                                                                                                                                                                                                                                                                                                                                                                        21
                                                                                            sapiens (Human)
                                                                                                                                                                                                                                                                                                                                                                                                                                  YSPVYCINTTERHKVPSPENIQINADNQIYVLKW------DYPYENATFQAQWLRAFFK 267
                                                                                                                                                                                                                                                                                                                                                                                                                                              YALIPCLLTDEVAILPAPQNLSYLSTNMKHLLMWSPVIAPGETYYYSVEYQGEYESLYTS
                                                                                                                                                                                                                        QTERCFIIENASIITEIEE
                                                                                                                                                                                                                                            EVDAC - - - - ATAVMSPEE
                                                                                                                                                                                                                                                                                    LALFAFVGFMLILVVVPLFVWKMGRLLQYSCCPVVVLPDTLK--ITNSPQK--LISCRRE
                                                                                                                                                                                                                                                                                                                              KMVRSGGIPVHLETMEPGAAYCVKAQTFVK--AIGXYSAFSQTECVEVQ----GEAIPLV
                                                                                                                                                                                                                                                                                                                                                                       NRNSTILTRPGM---EIXKXGFHLVI----ELEDLGPQ----FEFLVAYWXREPGAEEHV
                                                                                                                                                                                                                                                                                                                                                                                           KIPGNHSDKWKQIPN--CENVTSTHCVFPREVSSRGIYYVRVRASNGNGTSFWSEEKEFN
                                                                                                                                                                                                                                                                                                                                                                                                               HI-----W--IPSSWCSLTEGPECDVTDDITATVPYNLRVRATLGSQTSAWSILKHPF
                                                                                                                                                                                                                                                                 GTCTALFSIPVVIYVVSVFL---
                                                                                                                                                                                                                                                                                                         LEKRTNFI----FPDLKPLTVYCVKARALIENDRRNKGSSFSDTVCEKTKPGNTSKTWLIV
                                                                                                                                                                                                                                                                                                                                                   TEMKTIIFPPVISVKSVTDDSLHVSVGASEESENMSVNQLYPLIYEVIFWENTSNAERKV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Transmembrane;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 7; S27387.
IPR001777; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ą,
                                                                                                                                                                   STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           437
458
840
220
220
220
220
109
109
172
254
431
337
4334
                                                                       Chordata;
Primates;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                63818
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    10.1%;
21.9%;
                                                                                                                Last sequence up
Last annotation
RECEPTOR ALPHA (
                                                                                                                                              Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Glycoprotein; Signal BY SIMILARITY.
                                                                                                                                                                                                                         517
                                                                                                                                                                                                                                            304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ¥.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            62;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 164.5; 1
Pred. No. 3.5e
62; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      N-LINKED (GLCNAC...
N-LINKED (GLCNAC...
N-LINKED (GLCNAC...
F -> V (IN REF. 2).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            N-LINKED
N-LINKED
N-LINKED
N-LINKED
N-LINKED
                                                                                                                                                                                                                                                                 RCVKYVFFPSSKPPSSVDEYFSDQPLRNLLLSTSEE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    N-LINKED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CYTOPLASMIC (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            POTENTIAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       EXTRACELLULAR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         INTERFERON-ALPHA/BETA RECEPTOR
                                                                       Craniata; Ve Catarrhini;
                                                                                                                                                                    PRT;
                                                                                                                otation update)
ALPHA CHAIN PRECURSOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                66D76B72861E1D11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SIMILARITY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SIMILARITY
                                                                                                                                     update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (GLCNAC.)
(GLCNAC.)
(GLCNAC.)
(GLCNAC.)
(GLCNAC.)
(GLCNAC.)
                                                                                                                                                                    557
                                                                                   Vertebrata;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       .5e-07;
                                                                                                                                                                    ₹
                                                                         Hominidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            136;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (POTENTIAL).
(POTENTIAL).
(POTENTIAL).
(POTENTIAL).
(POTENTIAL).
(POTENTIAL).
                                                                                   Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (POTENTIAL)
                                                                                                                (IFN-ALPHA-REC).
                                                                         Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            51;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                       180
                                                                                                                                                                                                                                                                                                                                                                                           325
                                                                                                                                                                                                                                                                                                                                                                                                               131
                                                                                                                                                                                                                                                                                                                                                                                                                                                        80
                                                                                                                                                                                                                                                                  498
                                                                                                                                                                                                                                                                                    290
                                                                                                                                                                                                                                                                                                          442
                                                                                                                                                                                                                                                                                                                               234
                                                                                                                                                                                                                                                                                                                                                   385
```

14;

망

Ş

```
Best Local
Matches 7
                 Query Match
                                                                                                          CARBOHYD
CARBOHYD
CARBOHYD
CARBOHYD
                                             CONFLICT
                                                                                         CARBOHYD
CARBOHYD
                                                                                                                                                      CARBOHYD
CARBOHYD
                                                                                                                                                                        CARBOHYD
CARBOHYD
                                                                                                                                                                                         DISULFID MOD_RES
                                                                                                                                                                                                                    DOMAIN
DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           use by non-profit institutions as long modified and this statement is not removed.
                                                                                                                                                                                                                                                                                                                                                                                           This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       J. Biol. Chem.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              VARIANT
                                                                                                                                               CARBOHYD
                                                                                                                                                                                                                                       TRANSMEM
                                                                                                                                                                                                                                              DOMAIN
                                                                                                                                                                                                                                                                 CHAIN
                                                                                                                                                                                                                                                                           SIGNAL
                                                                                                                                                                                                                                                                                                                              EMBL; J03171; AAA52730.1; EMBL; X60459; CAA42992.1;
                                                                                                                                                                                                                                                                                                                                                        or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                entitles requires a license agreement (See http://www.isb-sib.ch/announce/
                                                                                                                                                                                                                                                                                                                                                                                                                                 <del>-</del>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Cell
[2]
                                                                                                                                                                                                                                                                                            Receptor;
                                                                                                                                                                                                                                                                                                     MIM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                   <del>-</del>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PHOSPHORYLATION BY TYK2
                                                                                                                                                                                                                                                                                  Phosphorylation.
                                                                                                                                                                                                                                                                                                                                                                                                                               SUBUNITS THEMSELVES.

SUBCELLULAR LOCATION: TYPE I MEMBRANE PROTEIN.

TISSUE SPECIFICITY: IFN RECEPTORS ARE PRESENT IN ALL TISSUES AND TISSUES OF MOST IFN-RESISTANT CELLS.

EVEN ON THE SURFACE OF MOST IFN-RESISTANT CELLS.

PTM: PHOSPHORYLATED ON TYROSINE RESIDUES BY TYK2 TYROSINE KINASE.

SIMILARITY: CONTAINS 2 PHERONECTIN TYPE III-LIKE DOMAINS.

SIMILARITY: COUTAINS 2 THEOREMET IT THE TOWAINS.
                                                                                                                                                                                                                                                                                                    107450;
                                                                                                                                                                                                                                                                                                            A32694; A32694.
S17112; S17112.
         Similarity
                                                                                                                                                                                                                                                                                            Transmembrane;
Conservative
                                                                                                                                                                                                                    28
437
458
79
                                                                                                                                                                                                   466
                                                                                                                                                                                                                                                                 28
                                             A,
                                                                                         436
457
557
557
220
220
220
220
481
481
588
811
110
1172
2154
416
                                             63525
        10.0%;
                                                                                                                                                                                                                                                                                           Glycoprotein; Signal; Polymorphism;
                                             3
54;
                                                                                                                                                                                                           EXTRACELLULAR (
POTENTIAL.
CYTOPLASMIC (PO
BY SIMILARITY.
BY SIMILARITY.
                                                                                        N-LINKED
N-LINKED
N-LINKED
N-LINKED
N-LINKED
        Score 162.5; DB: Pred. No. 5.2e-07;
                                                                      N-LINKED
L -> V.
                                                                                                                                                      N-LINKED
                                                    /FTId=VAR_002717.
G -> A (IN REF. 2)
                                                                                                                                                                      PHOSPHORYLATION (BY N-LINKED (GLCNAC... N-LINKED (GLCNAC...
                                                                                                                                                                                                                                                         CHAIN.
                                                                                                                                                                                                   PHOSPHORYLATION
                                                                                                                                                                                                                                                                INTERFERON-ALPHA/BETA RECEPTOR ALPHA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ERFERONS ALPHA AND BETA. BINDI
HOSPHORYLATION OF A NUMBER OF
PROTEINS AND IFN-R ALPHA-AND
                                            -> A (IN REF. 2)
0F6744C8A1ADBE73
Mismatches
                                                                                                         GLCNAC...
GLCNAC...
GLCNAC...
GLCNAC...
GLCNAC...
GLCNAC...
GLCNAC...
GLCNAC...
                                                                                         (GLCNAC.
                                                                                (GLCNAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Vielh E., Uze
alpha/beta rec
                                                                                                                                                                                                                             (POTENTIAL).
                DB 1;
                                                                                                                                                                                                                                                                                                                                                                                  as its content
115;
                                                                                                                                                                                                                                                                                                                                                                          Usage
                                                                                                                                                                                         (BY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Smalley D.,
                                             CRC64;
                                                                                                                                                                                           TYK2)
                                                                                                                                                                                                   TYK2)
                 Length
Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       receptor gene.";
                                                                                                         (POTENTIAL)
(POTENTIAL)
(POTENTIAL)
(POTENTIAL)
(POTENTIAL)
(POTENTIAL)
(POTENTIAL)
                                                                              (POTENTIAL). (POTENTIAL). (POTENTIAL).
                                                                                                                                                                      (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                           γď
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BINDING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 alpha subunit
kinase.";
                                                                                                                                                                                                                                                                                                                                                                           and
                  557;
83;
                                                                                                                                                                                                                                                                                                                                                                            for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BETA-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PROTEINS
                                                                                                                                                                                                                                                                                                                                                                                    in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TO
Gaps
                                                                                                                                                                                                                                                                                                                                                                                    no
17;
```

g its

```
INR1_SHEEP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Eukaryota; Metazoa; (
Mammalia; Eutheria; (
Bovidae; Caprinae; Ov
NCBI_TaxID=9940;
                                                                                                                                                                                                                                                                                                                                                                                                                                                      TISSUE=Endometrium;

MEDLINE=98006426; PubMed=9348203;

Han C.-S., Mathialagan N., Klemann S.W., Roberts R.M.;

Han C.-S., Mathialagan N., Klemann S.W., Roberts R.M.;

"Molecular cloning of ovine and bovine type I interferon receptor "Molecular crom uteri, and endometrial expression of messenger subunits from uteri, and endometrial expression of messenger subunits from ovine receptors during the estrous cycle and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  INEL_SHEEP STANDARD; PKI; JV ....

[28589; Q95206;
01-NOV-1997 (Rel. 35, Created)
01-NOV-1997 (Rel. 35, Last sequence update)
01-NOV-1997 (Rel. 39, Last annotation update)
30-MAY-2000 (Rel. 39, Last annotation update)
INTERFERON-ALPHA/BETA RECEPTOR ALPHA CHAIN PRECURSOR (IFN-ALPHA-REC)
INTERFERON-ALPHA/BETA RECEPTOR-1).
This SWISS-PROT entry is copyright. It is produced through a collab between the Swiss Institute of Bioinformatics and the EMBL outst the European Bioinformatics Institute. There are no restrictions use by non-profit institutions as long as its content is in modified and this statement is not removed. Usage by and for commodified and this statement is not removed.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Endocrinology 138:4757-4767(1997).

1: FUNCTION: RECEPTOR FOR INTERFERONS ALPHA AND BETA. BINDING TO TYPE

1: IFNS TRIGGERS TYROSINE PHOSPHORYLATION OF A NUMBER OF PROTEINS
INCLUDING JAKS, TYK2, STAT PROTEINS AND IFN-R ALPHA-AND BETA-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ovis aries (Sheep).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE FROM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (INTERFERON ALPHA/BETA IFNAR1 OR IFNAR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         281
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             427
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            371
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     224
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       322
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      268
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 215
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mol.
                                                                                                                                                               SUBUNITS THEMSELVES.
SUBCELLULAR LOCATION: TYPE I MEMBRANE PROTEIN.
TISSUE SPECIFICITY: EXPRESSED IN ALL TISSUES E
CONCEPTUS AT DAY 15 OF PREGNANCY.
SIMILARITY: CONTAINS 2 FIBRONECTIN TYPE III-LI
SIMILARITY: BELONGS TO THE CLASS II CYTOKINE E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  VEVQ-GEAIPLVLALFAFVGFMLILVVVPLFVWKMGRLLQYSCCPVVVLPDTLKITNS--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      YSPVHCIKTTVENELPPPENIEVSVQNQNYVLKW-----DYTYANMTFQVQWLHAFLK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  EYFSEQPLKNLLLSTSEEQIEKC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   -----PQK--LISCRREEVDAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LVAYWXREPGAEEHVKMVRSGGIPVHLETMEPGAAYCVKAQ--TFVKAIGXYSAFSQTEC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RNPGNHLY---KWKQI----PDCENVKTTQCVFPQNVFQKGIYLLRVQASDGNNTSFWSEE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     YALIPCLLTDEVAILPAPQNLSVLSTNMKHLLMWSPVIAPGETVYYSVEYQGEYESLYT-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          EKTKPGNTSKIWL----IVGICIALFALPFVIYAAKVFLR--CINYVFFP-SLKPSSSID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    IKFDTEIQAFLLPPVFNIRS----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ----SHIWIPSSWCSLTEGPECDVTDDITATVPYN-----LRVRATLGSQTSAWS--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            - IIFWENTSNAERKIIEKKT - - - DVTVPNLKPLTVYCVKARAHTMDEKLNKSSVFSDAVC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Endocrinol.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              --ILKHPFNRNSTILTRPGMEIXKXGFHLVI------
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ovis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Chordata; Craniata; Vertebrata; Euteleostomi; Cetartiodactyla; Ruminantia; Pecora; Bovoidea
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       17:207-215(1996).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  502
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      295
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ----LSDSFHIYIGAPKQSGNTPVIQDYPLIYE-
                                                                                                                                                                  III-LIKE DOMAINS.
OKINE FAMILY OF RECEPTORS.
                                                                                                                                                                                                                                                      EXAMINED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ELEDIGPOFEF
                                                                                                                                                                                                                                                         EXCEPT
                                                                                    a collaboration
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    'n
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       370
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     280
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            426
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                223
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              165
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          125
```

Q

문

δÃ 밁

밁

밁

Š 밁 Š

δÃ

```
IlOR_HUMAN
ID IlOR_H
AC Q13651
DT 15-JUL
DT 15-JUL
DT 01-OCT
DE INTERL
GN IL1ORA
OS Homo s
OC Eukary
                                                                                                                                             QΥ
                                                                                                                                                                   밁
                                                                                                                                                                                  γQ
                                                                                                                                                                                                         밁
                                                                                                                                                                                                                                                                ρy
                                                                                                                                                                                                                                                                                   DЬ
                                                                                                                                                                                                                                                                                                     Ş
                                                                                                                                                                                                                                                                                                                         멍
                                                                                                                                                                                                                                                                                                                                          Š
                                                                                                                                                                                                                                                                                                                                                                                                              SPETTET
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT
                                                                                                                             밁
                                                                                                                                                                                                                                                                                                                                                               Matches
                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local
                                      110R_HUMAN
Q13651;
15-JUL-1998
15-JUL-1998
01-OCT-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                CARBOHYD
CONFLICT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CARBOHYD
CARBOHYD
CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CARBOHYD
CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CARBOHYD
CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DISULFID
DISULFID
CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 entitles requires a or send an email to
                             15-JUL-1998 (Rel. 36, Cr
15-JUL-1998 (Rel. 36, La
01-OCT-2000 (Rel. 40, La
INTERLEUKIN-10 RECEPTOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                    CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                             CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Receptor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Pfam; PF00041; fn3; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            InterPro;
  Eukaryota;
            Homo sapiens (Human)
                    IL10RA OR IL10R
                                                                                                                             495
                                                                                                                                                                   442
                                                                                                                                                                                                         385
                                                                                                                                                                                                                            180
                                                                                                                                                                                                                                               325
                                                                                                                                                                                                                                                                                                                          215
                                                                                                                                                                                                                                                                                                       81
                                                                                                                                                                                                                                                                                                                                  IPLVLALFAFVGFMLILVVVPLFVWKMGRLLQYSCCPVVVLPDTLK--ITNSPQK--LIS
                                                                                                                                                                                                                                                                                                     HI-----W--IPSSWCSLTEGPECDVTDDITATVPYNLRVRATLGSQTSAWSILKHPF
                                                                                                                            TSEEQTERCFIENASIITEIEE
                                                                                                                                                CRREEVDAC ---- ATAVMSPEE 304
                                                                                                                                                                                                       VLEKRT - - - DFTFPNLKPLTVYCVKARALIENDRWNKGSSYSDTVCEKTKPGNTSKTWLI
                                                                                                                                                                                                                                                                NRNSTILTRPGM----EIXKXGFHLVI----ELEDLGPQ----FEFLVAYWXREPGAEEH
                                                                                                                                                                                                                                                                                                                        YSPVYCINTTERHKVPSPENVQINVDNQAYVLKW-----DYPYESTTFQAQWLRAFLK 267
                                                                                                                                                                 AGICTALES---ILVVIYVVRVFL----RCVKYVFFPSSKPPSSVDQYFSDQPLRNLLLS
                                                                                                                                                                                                                         VKMVRSGGIPVHLETMEPGAAYCVKAQTFVK--AIGXYSAFSQTECVEVQ-GEA-----
                                                                                                                                                                                                                                                                                   KIPGKHSNKWKQIPN--CENVTTTHCVFPRDIFSMGIYYVRVRASNGNGTSFWSEEKE-F
                                                                                                                                                                                                                                            NTEVKPIIFPPVISMKSITDDSLHVSVSASEESENMSVNQLYPLVYEVIFWENTSNAERK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    X95939; CAA65183.1;
U65978; AAB84231.1;
                                                                                                                                                                                                                                                                                                                                                                       Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           IPR001777;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Transmembrane;
 Metazoa;
                                                                                                                                                                                                                                                                                                                                                                                                             438 458 458 459 560 76 84 7 199 220 47 55 85 85 85 222 285 359 377 434 5522 AW;
                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                             STANDARD;
Chordata;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               license agreement (See http://www.isb-sib.ch/announce/
license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                       9.7%;
                                       Last sequence update)
Last annotation update)
                                                         Created)
                             ALPHA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Glycoprotein; Sig
                                                                                                                                                                                                                                                                                                                                                               58;
                                                                                                                                                                                                                                                                                                                                                                                                                    N-LINKED
                                                                                                                            517
                                                                                                                                                                                                                                                                                                                                                                       Score 157.5; DB 1
Pred. No. 1.5e-06;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           N-LINKED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     N-LINKED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              N-LINKED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         N-LINKED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   N-LINKED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CYTOPLASMIC (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 EXTRACELLULAR (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     INTERFERON-ALPHA/BETA RECEPTOR
  Craniata; Vertebrata;
                              CHAIN
                                                                              PRT;
                                                                                                                                                                                                                                                                                                                                                                                                           -> G (IN REF. 2).
-> D (IN REF. 2).
E7198A1905D4805C
                                                                                                                                                                                                                                                                                                                                                             Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SIMILARITY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SIMILARITY
                              PRECURSOR
                                                                             578
                                                                                                                                                                                                                                                                                                                                                                                                                                                           (GLCNAC.
(GLCNAC.
(GLCNAC.
(GLCNAC.
(GLCNAC.
(GLCNAC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (GLCNAC.
(GLCNAC.
(GLCNAC.
                                                                                                                                                                                                                                                                                                                                                                                                                                         (GLCNAC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                  GLCNAC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Signal
                                                                             8
                                                                                                                                                                                                                                                                                                                                                                                DB 1;
                             (IL-10R-A) (IL-10R1).
                                                                                                                                                                                                                                                                                                                                                                                                             CRC64;
                                                                                                                                                                                                                                                                                                                                                             Indels -
                                                                                                                                                                                                                                                                                                                                                                              Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                           (POTENTIAL).
(POTENTIAL).
(POTENTIAL).
(POTENTIAL).
(POTENTIAL).
  Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                   (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                              59;
                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                     286
                                                                                                                                                                                                                                            384
                                                                                                                                                                                                                                                                                  324
                                                                                                                                                                                                        441
                                                                                                                                                                                                                                                                                                                                                             17;
```

```
RESULT
TF_RABIT
ID TF_R
AC P240
                                                                                                                                                       δ
                                                                                                                                                                                                                                      밁
                                                                                                                                                                                                                                                             Q
                                                                                                                                                                                                                                                                                         망
                                                                                                                                                                                                                                                                                                                                                                                                           Ş
                                                                                                                                                                                  밁
                                                                                                                                                                                                         Ş
                                                                                                                                                                                                                                                                                                                Ş
                                                                              밁
                                                                                                                               밁
                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local S
Matches 70
                                                                                                                                                                                                                                                                                                                                                                                                                                                          DOMAIN
DISULFID
CARBOHYD
CARBOHYD
CARBOHYD
TF_RABIT P24055;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Liu Y., Wei S.H.-Y., HO A.S.-Y., de Waal Malefyt R., MOOIE K.W.;

"Expression cloning and characterization of a human IL-10 receptor.

J. Immunol. 152:1821-1829(1994).

-i- FUNCTION: RECEPTOR FOR IL-10; BINDS IL-10 WITH A HIGH AFFINITY.

-i- SUBCELLULAR LOCATION: TYPE I MEMBRANE PROTEIN.

-i- TISSUE SPECIFICITY: SPLEEN, THYMUS, AND BMC. FAINT EXPRESSION

IN PANCREAS, SKELETAL MUSCLE, BRAIN, HEART, AND KIDNEY. PLACENT.

LUNG, AND LIVER SHOWED INTERMEDIATE LEVELS. MONOCYTES, B CELLS,

LARGE GRANULAR LYMPHOCYTES, AND T CELLS EXPRESS HIGH LEVELS OF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Receptor;
SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CHAIN
DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     EMBL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       the European Bioinformatics Institute. The use by non-profit institutions as long modified and this statement is not removed.
                                                                                                                                                                                                                                                                                                                                                                                                                      CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                entities requires a license agreement (S or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              This
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TISSUE=Lymphoma; MEDLINE=94165477;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MIM; 146933
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  between
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mammalia; Eutheria;
NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                     CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TRANSMEM
                                                                             224
                                                                                                      224
                                                                                                                               174
                                                                                                                                                                                  116
                                                                                                                                                                                                            129
                                                                                                                                                                                                                                      61
                                                                                                                                                                                                                                                               70
                                                                                                                                                                                                                                                                                                     23 LIPCLLTDEVAI-------LPAPQNLSVLSTNMKHLLMWSPVIAPGETVYYSVE ::|||:|:|:|:||:||
                                                                                                                                                                                                                                                                                         <u>...</u>
                                       9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SIMILARITY: BELONGS TO THE CLASS II CYTOKINE FAMILY OF RECEPTORS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SWISS-PROT entry is copyright. It is produced through een the Swiss Institute of Bioinformatics and the El
                                                                                                     VEV--QGEAIPLVLALFAFV----GFMLILVVVPLFVWKMGRLLQYSCCPVVVL
                                                                                                                                                                                  TRFSVDEVTLTVGSVNLEIHN-GFILGKIQLPRPKMAPANDTYESIFSHFREYEIAI-RK
                                                                                                                                                                                              HPENRNSTILT--RPGMEIXKXGFHL-VIEL-------EDLGPQF-EFLVAYWXR 172
                                                                                                                                                                                                                                      L-----LRYGIESWNSISNCSQTLSYDLTAVTLDLYHSNGYRARVRAVDGSRHSNWTVTN 115
                                                                                                                                                                                                                                                                                       MLPCLVVLLAALLSLRLGSDAHGTELPSPPSVWFEAEFFHHILHWTPIPNOSESTCYEVA
                                                                             ISLTROYFTVTNVIIFFAFVLLLSGALAYCLALQLYVRRRKKL----
                                                                                                                               VPGNFTFTHKKVKHENFSLLTSGEV--
                                                                                                                                                         EPG--
                                                                                                                                                                                                                                                             YQGEYESLYTSHIWIPSSWCSLTEGPECD-VTDDITATVPYNLRVRATLGSQTSAWSILK 128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      U00672;
                                                                                                                                                                                                                                                                                                                                                      Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Transmembrane;
                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAA17896.1; -.
             STANDARD;
                                                                                                                                                       -AEEHVKMVRSGGIPVHLETMEPGAAYCVKAQTFVKAIGXYSAFSQTEC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PubMed=8120391;
                                                                                                                                                                                                                                                                                                                                                                                                                                   578
235
256
578
578
223
74
110
154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Primates;
                                                                                                                                                                                                                                                                                                                                                     8.4%;
                                                                                                                                                                                                                                                                                                                                                                                                          62903
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Glycoprotein;
POTENTIAL
                                                                                                                                                                                                                                                                                                                                                                                                          ¥.
                                                                                                                                                                                                                                                                                                                                           47;
                                                                                                                                                                                                                                                                                                                                                                                                                   N-LINKED (GLCNAC...)
N-LINKED (GLCNAC...)
N-LINKED (GLCNAC...)
N-LINKED (GLCNAC...)
N-LINKED (GLCNAC...)
N-LINKED (GLCNAC...)
                                                                                                                                                                                                                                                                                                                                                      Score 136;
Pred. No. 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CYTOPLASMIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      INTERLEUKIN-10 RECEPTOR ALPHA EXTRACELLULAR (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   POTENTIAL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             POTENTIAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Catarrhini; Hominidae;
             PRT;
                                                                                                                                                                                                                                                                                                                                                                                                          EE1B29064338157C CRC64;
                                                                                                                                                                                                                                                                                                                                           Mismatches
             292
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (See http://www.isb-sib.ch/announce/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Signal.
                                                                                                                               -GEFCVQVKPSVASRSNKGMWSKEEC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   There
                                                                                                                                                                                                                                                                                                                                                      DB 1;
.00012;
             ₽
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      as its content
                                                                                                                                                                                                                                                                                                                                           109;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Usage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   are
                                                                                                                                                                                                                                                                                                                                                                  Length
                                                                                                                                                                                                                                                                                                                                           Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                 ) (POTENTIAL).
) (POTENTIAL).
) (POTENTIAL).
) (POTENTIAL).
) (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                       (POTENTIAL)
                                                                              --PSVLL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   restrictions
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 EMBL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   a collaboration
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 outstation
                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            commercia
                                                                                                                                                                                                                                                                                        60
                                                                                                                                                                                  173
                                                                                                                                                                                                                                                                                                                  69
                                                                                                                               223
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ľ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       no
on
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      way
                                                                                                                                                                                                                                                                                                                                           14;
```

```
CCCCCCCCCCCCCCRRRRRRRRRRR
   PIR; JU0441; KFRB3.
PIR; S23681; S23681.
PDB; 1A21; 27-MAY-98.
InterPro; IPR001187; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               01-MAR-1992
01-MAR-1992
01-OCT-2000
                                                             TRANSMEM
DOMAIN
SITE
SITE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Pawashe A., Ezekowitz M., Lin A.....
"Molecular cloning, characterization and rabbit brain tissue factor.";
"hromb. Haemost. 66:315-320(1991).
               CARBOHYD
CARBOHYD
                                      CARBOHYD
CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                         tissue factor.";

Protein Sci. 7:1106-1115(1998).

Protein Sci. 7:1106-1115(1998).

CIECULATION: INITIATES BLOOD COAGULATION BY FORMING A COMPLEX WITH CIECULATING FACTOR VII OR VIIA. THE [TF:VIIA] COMPLEX ACTIVATES FACTORS IX OR X BY SPECIFIC LIMITED PROTOLYSIS. TF PLAYS A ROLE NORMAL HEMOSTASIS BY INITIATING THE CELL-SURFACE ASSEMBLY AND PROPAGATION OF THE COAGULATION PROTEASE CASCADE.
                                                                                                                                                                                                                                                                                               entitles requires a license agreement (S or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                 This SWISS-PROT entry is copyright. It is produced through between the Swiss Institute of Bioinformatics and the Entrepean Bioinformatics Institute. There are no restructed by non-profit institutions as long as its content
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Muller Y.A., Kelley R.F., de Vos A.M., "Hinge bending within the cytokine recthe 2.4 A crystal structure of the ext
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Eukaryota;
Mammalia;
                                                                                                                                                                                     Pfam; PF01108; Tissue_fac; 1. PRINTS; PR00346; TISSUEFACTOR.
                                                                                                                                                                                                                                                              EMBL; M55390; AAA63469.1; EMBL; X53521; -; NOT_ANNO
                                                                                                                                                                                                                                                                                                                       use by non-profit institutions as long modified and this statement is not removed.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     X-RAY CRYSTALLOGRAPHY (2.35 ANGSTROMS)
MEDLINE=98266351; PubMed=9605315;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE OF 33-292 FROM N.A. STRAIN-NEW ZEALAND WHITE; TISSUE-Brain;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Oryctolagus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TISSUE
                                                                                                                         CHAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MEDLINE=92081032; PubMed=1746002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         "Conservation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NCBI_TaxID=9986;
                                                                                                              DOMAIN
                                                                                                                                       SIGNAL
                                                                                                                                                                         PROSITE; PS00621; TISSUE_FACTOR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Andrews B.S.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MEDLINE=91200676; PubMed=1840552;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                             SUBCELLULAR LOCATION: TYPE I MEMBRANE PROTEIN. TISSUE SPECIFICITY: BRAIN, HEART. SIMILARITY: BELONGS TO THE TISSUE FACTOR FAMILY.
3D-structure.

1 32

33 292

33 250

251 271

272 292

44 46

75 77

41 41

114 114

1154 154

167 167

182 182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             cuniculus (Rapbir,
Metazoa; Chordata; Cr
Sutheria; Lagomorpha;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (Rel.
(Rel.
                                                                                                                                                              Blood coagulation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  of tissue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Rehemtulla
                                                                                                                                                                                                                                                           NOT_ANNOTATED_CDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             21,
21,
40,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 , Created)
, Last sequence upo
, Last annotation u
SOR (TF) (COAGULAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 factor primary sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Α.,
 N-LINKED
N-LINKED
N-LINKED
                                                              WKS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  nnotation update)
(COAGULATION FACTOR
                                                  N-LINKED
                                                                                     CYTOPLASMIC (POTENTIAL)
                                                                                                EXTRACELLULAR POTENTIAL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Fowler B.J.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Craniata;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  raniata; Vertebrata; Euteleostomi;
Leporidae; Oryctolagus.
                                                                          MOTIF.

    Transmembrane;

                                                              MOTIF.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    receptor superfamily extracellular domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Horton R., Bach R., Konnand expression of cDNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           update)
 GLCNAC.
GLCNAC.
GLCNAC.
GLCNAC.
GLCNAC.
                                                                                                                                                                                                                                                                                                            (See http://www.isb-sib.ch/announce/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ç
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Edgington
                                                                                                             (POTENTIAL)
                                                                                                                                                                                                                                                                                                                       Usage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               gton T.
                                                                                                                                                           Signal; Lipoprotein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  III).
(POTENTIAL).
(POTENTIAL).
(POTENTIAL).
(POTENTIAL).
(POTENTIAL).
                                                                                                                                                                                                                                                                                                                         φ
                                                                                                                                                                                                                                                                                                                                               restrictions
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 three mamma.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    revealed h
                                                                                                                                                                                                                                                                                                                         and for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Konigsberg
                                                                                                                                                                                                                                                                                                                                                            EMBL
                                                                                                                                                                                                                                                                                                                                    is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  mammalian
                                                                                                                                                                                                                                                                                                                                                            collaboration -
                                                                                                                                                                                                                                                                                                                                      'n
                                                                                                                                                                                                                                                                                                                          commercia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               γď
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            z
                                                                                                                                                                                                                                                                                                                                    no on
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Σ.
                                                                                                                                                                                                                                                                                                                                                                                                                                                          N
                                                                                                                                                                                                                                                                                                                                    way
```

```
RESULT 1
TF_HUMAN
ID TF_HUMAN
ID TF_HAN
ID TF_HAN
ID TF_HAN
ID TF_HAN
ID TF_HAN
ID TF_HAN
ID O1-J
ID O
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         δõ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ₽
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ₽
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Qy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SOFT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local S
Matches 61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               01-JAN-1990 (Re
01-JAN-1990 (Re
01-OCT-2000 (Re
TISSUE FACTOR I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TF_HUMAN P13726;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DISULFID
DISULFID
LIPID
SEQUENCE
                                                                                                                                                                                                                                                                                   Spicer E.K., Horton R., Bloem L., Bach R., Willian Kraus J., Lin T.C., Nemerson Y., Konigsberg w.H.; Kraus J., Lin T.C., Nemerson Y., Konigsberg w.H.; "Isolation of cDNA clones coding for human tissue structure of the protein and cDNA."; Proc. Natl. Acad. Sci. U.S.A. 84:5148-5152(1987).
                                                                                                                    MEDLINE=87244317; PubMed=329734
Morrissey J.H., Fakhrai H., Edd
"Molecular cloning of the cDNA
receptor for the initiation of
Cell 50:129-135(1987).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MEDLINE=89247359; PubMed=2719931;
Mackman N., Morrissey J.H., Fowler B.,
"Complete sequence of the human tissue
regulated cellular receptor that initia
  Scarpati E.M., Wen Flandermeyer R.R.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Eukaryota; Metazoa;
Mammalia; Eutheria;
                                           MEDLINE-88050796;
                                                                   SEQUENCE FROM N.A.
                                                                                                                                                                                                                                          SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                            MEDLINE=87260946; PubMed=3037536;
                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Biochemistry
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        cascade
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens (Human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (THROMBOPLASTIN)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     144
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                144
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              84
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         94
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FMLILVVVPLFVWK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             VALLIVLSVTVYK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GPECDVTDDITATY--PYNLRVRATLGSQTSAWSILKHPFNRNS-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NLSYLSTNMKHLLMWSPVIAPGETVYYSVEYQGEYESLYTSHI-----WIPSSWCSLTE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TNTNEFLIDVDKGENYCFSVQAVIPSRKRKQRSPESLTECTSREQGRAREMFFIIGAVVV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GGIPVHLETMEPGAAYCVKAQTFV--KAIGXYSAFSQTECV-EVQGEAIPLVLALFAFVG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                QSFEQVGTKLNVTVQDARTLVRRNGTFLSLRAVFGKDLNYTLYYWR---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                E-IXKXGFHLVIELED----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ETECDLTDEVVKDVGQTYMARVLSYPARNGNTTGFPEEPPFRNSPEFTPYLDTNLGQPTI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NLTWKSTNFKTILEWEP------KSIDH------VYTVQISTRLENW--KSKCFLTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                79
216
274
292
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (Rel. 13, Createu,
(Rel. 13, Last sequence update)
(Rel. 40, Last annotation updat
OR PRECURSOR (TF) (COAGULATION F
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                28:1755-1762(1989).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ą,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STANDARD;
  ; PubMed=2823875;
en D., Broze G.J.
., Siegel N.R., Sa
                                                                                                PubMed=3297348;
'akhrai H., Edgington T.S.;
ag of the cDNA for tissue factor, the cellular
ag of the cDNA for tosue factor protease cascad
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  87
239
274
32738 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             receptor that initiates the coagulation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           256
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Primates;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Chordata;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8.0%;
24.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 130; DB 1;
Pred. No. 0.00019;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PALMITATE (BY SIMILARITY) 4860A1CADBACCF71 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Craniata; Vertebrata; Euteleostomi; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRT;
    J. Jr.,
Sadler
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches
                                                                                                                                                                                                                                                                                                                                                                                    Bach R., Williams
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              295
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LGPQFEFLVAYWXREPGAEEHVKMVRS
    Miletich J.E.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Edgington T.S.; factor gene, a highly
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ₽
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FACTOR III)
                                                                                                                                            protease cascade.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 292
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                                                                                                                                                                                                    K.R.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  -ASSTGKKTAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TILTRPGM
                                                                                                                                                                                                                                                                                                                                   primary
                                                                                                                                                                                                                                                                                                                                                                                    Guha
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             protease
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   58;
                                                                                                                                                                                                                                                                                                                                                                                    Α.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   93
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         259
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       83
```

```
entities
or send a
                                                                                                                        This SWI
between
                                                                                                                                                                                                                                                                                                                                                                              "The crystal structure of the complex of blood VIIa with soluble tissue factor.";
Nature 380:41-46(1996).
                      EMBL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 X-RAY CRYSTALLOGRAPHY (3.0 ANGSTROMS) MEDLINE=94368785; PubMed=8086403;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Bach
                                                                                                                                                                                                                                                                                                                           Zhang E., St Charles R., Tulinsky A.; "Structure of extracellular tissue factor inhibited with a BPTT mutant.":
                                                                                                                                                                                                                                                                                                                                                                                                                    Banner D.W., D'Arcy A., Chene C.,
Konigsberg W.H., Nemreson Y., Kirc
                                                                                                                                                                                                                                                                                                                                                                                                                                            X-RAY CRYSTALLOGRAPHY (2.0 ANGSTROMS) OF MEDLINE=96175641; PubMed=8598903;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MEDIINE-96190957; PubMed-8609606;
Muller Y.A., Ultsch M.H., de Vos A.M.;
"The crystal structure of the extracellular factor refined to 1.7-A resolution.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        X-RAY CRYSTALLOGRAPHY (1.7 ANGSTROMS) MEDLINE=96190957; PubMed=8609606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Muller Y.A., Ultsch M.H., Kelley R.F., de V
"Structure of the extracellular domain of h
location of the factor VIIa binding site.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE=89000604; PubMed=3166978;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A. MEDLINE=88100453; PubMed=3424286;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           the
                                             EMBL;
                                                                                                            the European
                                                                                                                                                                                                                                                                                                                                                       MEDLINE=99126538;
                                                                                                                                                                                                                                                                                                                                                                  X-RAY CRYSTALLOGRAPHY (2.1 ANGSTROMS) OF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Biochemistry 33:10864-10870(1994)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Biochemistry 27:4227-4231(1988).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              on the cytoplasmic half-cystine.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       "Human tissue factor contains thioester-linked
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DISULFIDE BONDS, AND PALMITOYLATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               fhromb. Res.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       'Cloning
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Fisher K.L.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Biochemistry
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           "Human tissue the gene.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    [9]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mol. Biol. 256:144-159(1996).
                                                                                                                                              DATABASE: NAME-PROW; NOTE-CD guide CD142 entry; WWW-"http://www.ncbi.nlm.nih.gov/prow/cd/cd142.htm".
                                                                                                          SWISS-PROT entry is copyright. It is produced through a collaboration een the Swiss Institute of Bioinformatics and the EMBL outstation - European Bioinformatics Institute. There are no restrictions on its
 M16553;
J02846;
M27436;
A19048;
                                             J02931;
                                                                   an
                                                                           non-profit
d and this sta
requires a l
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Konigsberg W.H., Nemerson
                                                                 nd this statement is not removequires a license agreement (semail to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gorman C.M., Vehar G.A., O'Brien D.P., expression of human tissue factor cDNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               26:5234-5238(1987)
AAA61150.1;
AAA61151.1;
AAA61152.1;
AAA36734.1;
CAA01438.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    factor: cDNA sequence
                                                                                                                                                                                                                                                                                                                                                         PubMed=9925787
                                                                                                  institutions as long
   . . . . .
                                                                                     is not removed
                                                                                                                                                                                                                                                                                                                                                                                                                                  Winkler F.K.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Υ.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    and chromosome localization
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ç
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              QF,
                                                                           (See http://www.isb-sib.ch/announce/
                                                                                                                                                                                                                                                                                                                                                                   37-242 IN
                                                                                                                                                                                                                                                                                                                                                                                                                                                        33-251 IN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              33-243
                                                                                                  as its content
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Vos A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  domain
                                                                                     Usage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       palmitate
                                                                                                                                                                                                                                                                                                                                                                                                            coagulation
                                                                                                                                                                                                                                                                                                                                                                                                                                   Guha
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              tissue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  of
                                                                                                                                                                                                                                                                                                                                                                   COMPLEX WITH
                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPLEX WITH FVIIA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Lawn
                                                                                       уg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              factor:
                                                                                        and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   R.M.;
                                                                                                                                                                                                                                                                                                                                                                                                             factor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  tissue
                                                                                        for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       stearate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    of.
                                                                                       in no way
                                                                                                                                                                                                                                                                                                                                                                   FVIIA
                                                                                                                                                                                                                                                                            H
```

```
Qy
                                                                                                                                                                             밁
                                                                                                                                                                                             δõ
                                                                                                                                                                                                              밁
                                                                                                                                                                                                                              Qy
                                                                                                                                                                                                                                               DЬ
                                                                                                                                                                                                                                                               Ş
                                                                                                                                                                                                                                                                                 밁
                                                                                                                                                                                                                                                                                                Ş
                                                                                                                                                                                                                                                                                                                                                             RR OCC OCN DT DT AC
                                                                                                                                            밁
                                                                                                                   RESULT
                                                                                                                                                                                                                                                                                                                   Matches
                                                                                                                                                                                                                                                                                                                          Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                    TRANSMEM DOMAIN SITE SITE SITE
                                                                Q61727;
15-JUL-1998
15-JUL-1998
01-OCT-2000
                                                                                                                                                                                                                                                                                                                                                          CONFLICT
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                   CARBOHYD
CARBOHYD
DISULFID
DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PIR;
PIR;
PIR;
PDB;
PDB;
PDB;
PDB;
PDB;
PDB;
PDB;
                       Mus musculus (Mouse).
Eukaryota; Metazoa; C
Mamumalia; Eutheria; F
                                                                                                            MOUSE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CHAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Glycoprotein;
              NCBI_TaxID=10090,
                                                        15-JUL-1998 (Rel. 36, Created)
15-JUL-1998 (Rel. 36, Last sequence update)
01-CCT-2000 (Rel. 40, Last annotation update)
INTERLEUKIN-10 RECEPTOR ALPHA CHAIN PRECURSOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Palmitate;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PROSITE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRINTS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Pfam; PF01108;
                                                 IL10RA OR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   InterPro;
                                                                                                  I10R_MOUSE
                                                                                                                                                                              185
                                                                                                                                                                                              165
                                                                                                                                                                                                                               131
                                                                                                                                            241
                                                                                                                                                             223
                                                                                                                                                                                                              125
                                                                                                                                                                                                                                                73
                                                                                                                                                                                                                                                                73
                                                                                                                                                                                                                                                                                 19
                                                                                                                                                                                                                                                                                                  13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A28320;
A43645;
A47574;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1DAN;
1AHW;
                                                                                                                                                             CV-EVQGEAIPLVLALFAFVGFMLILVVV
                                                                                                                                                                                                                                                                                          TSLFMWFFYALIPCLLTDEVAILPAPQNLSVLSTNMKHLLMWSPVIAPGETVYYSVEYQG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           134390;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2HFT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1BOY;
                                                                                                                                            CMGQEKGEFREIFYIIGAVVFVVIILVII
                                                                                                                                                                                                              LYENSPEFTPYLETNLGQPTIQSFEQVGTKVNVTVEDERTLVRRNNTFLSLRDVFGKDLI
                                                                                                                                                                                                                               FNRNS-----
                                                                                                                                                                                                                                                                                 TLLLGWVFAQVAGASGTTNTV---AAYNLTWKSTNFKTILEWEP--KPVNQV-YTVQIST
                                                                                                                                                                                             FLVAYWXREPGAEEHVKMVRSGGIPVHLETMEPGAAYCVKAQTFV--KAIGXYSAFSQTE
                                                                                                                                                                                                                                                K-----SGDW--KSKCFYTTDTECDLTDEIVKDVKQTYLARVFSYPAGNVESTGSAGEP
                                                                                                                                                                                                                                                                EYESLYTSHIWIPSSWCSLTEGPECDVTDDITATV--PYNLRVRATLGSQTSAWSILKHP 130
                                                                                                                                                                                                                                                                                                                   63;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PR00346; TISSUEFACTOR
                                                                                                                                                                                                                                                                                                                          Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PS00621;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 10-JUN-96.
29-JAN-96.
04-SEP-97.
19-AUG-98.
19-AUG-98.
03-DEC-99.
                                                 IL10R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  IPR001187; -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       3D-structure.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    KFHU3.
A43645.
A47574.
                                                                                                                                                                                                                                                                                                                                                                                             190
156
169
                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               621; TISSUE_FACTOR;
Blood coagulation;
                                                                                                                                                                                                                                                                                                                                                             Ş.
                                                                                                   STANDARD;
                                                                                                                                                                                                                                                                                                                                                     48
79
192
156
169
89
89
241
277
1
260
V
                                                                                                                                                                                                                              -TILTRPGME-IXKXGFHLVIELED--
                                                                                                                                                                                                                                                                                                                                                                                                                                              295
251
274
295
                       Chordata;
Rodentia;
                                                                                                                                                                                                                                                                                                                          7.7%;
                                                                                                                                                                                                                                                                                                                   35,
                                                                                                                                                                             ·NTNEFLIDVDKGENYCFSVQAVIPSRTVNRKSTDSPVE
                                                                                                                                                                                                                                                                                                                          Score 125.5;
Pred. No. 0.
                                                                                                                                                                                                                                                                                                                                                           PALMITATE.
V -> A (IN REF. 4); D3486C713ED8EAD0
                                                                                                                                                                                                                                                                                                                                                                                                      N-LINKED
                                                                                                                                                                                                                                                                                                                                                                                                                      WKS
SXM
                                                                                                                                                                                                                                                                                                                                                                                                                                        WKS
                                                                                                                                                                                                                                                                                                                                                                                                                                               CYTOPLASMIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                               TISSUE FACTOR. EXTRACELLULAR
                                                                                                                                                                                                                                                                                                                                                                                                                                                      POTENTIAL
                       Craniata; Vertebrata;
Sciurognathi; Muridae;
                                                                                                   PRT;
                                                                                                                                                                                                                                                                                                                   Mismatches

    Transmembrane;

                                                                                                                                                                                                                                                                                                                                                                                                                       MOTIF.
                                                                                                                                                                                                                                                                                                                                                                                                                                        MOTIF
                                                                                                                                                                                                                                                                                                                                                                                                                               MOTIF.
                                                                                                                                                             250
                                                                                                                                                                                                                                                                                                                                                                                                     (GLCNAC.
                                                                                                   575
                                                                                                                                                                                                                                                                                                                           .00049;
                                                                                                   ₹
                                                                                                                                                                                                                                                                                                                                                                                                                                               (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                               (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                    DB
                                                                                                                                                                                                                                                                                                                                                                                                      . .
                                                         (IL-10R-A)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Signal; Lipoprotein;
                                                                                                                                                                                                                                                                                                                                                             CRC64;
                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                                                                                                                                                  Length
                                                                                                                                                                                                                                                                                                                                                                                                     (POTENTIAL)
                                Euteleostomi;
                                                         (IL-10R1).
                                                                                                                                                                                                                                                                                                                   49;
                                                                                                                                                                                                                               LGPQFE
                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                              222
                                                                                                                                                                                                                               164
                                                                                                                                                                                                                                                                                 72
                                                                                                                                                                              240
                                                                                                                                                                                                              184
                                                                                                                                                                                                                                                124
                                                                                                                                                                                                                                                                                                 72
                                                                                                                                                                                                                                                                                                                   12;
```

```
RESULT
TF_CAVE
AC QS
DT 00
DT 00
DT 00
DT 00
OR T
OR T
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ş
                                                                                                                                                                                                                                                                                                               Š
                                                                                                                                                                                                                                                                                                                                                     В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               망
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ş
                                                                                                                                                                                                               밁
                                                                                                                                                                                                                                            ð
                                                                                                                                                                                                                                                                                  밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SOFFIT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local S
Matches 64
                                                                                                                                             _CAVPO
                                                    TF_CAVPO
Q9JLU8;
01-OCT-2000
01-OCT-2000
01-OCT-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CARBOHYD
CARBOHYD
CARBOHYD
CARBOHYD
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SIGNAL
CHAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                HO A.S.-Y., Liu Y., Khan T.A., Hsu D.-H., Bazan J.F., Moore K.W.;
"A receptor for interleukin 10 is related to interferon receptors.";
Proc. Natl. Acad. Sci. U.S.A. 90:11267-11271(1993).
-i- FUNCTION: RECEPTOR FOR IL-10, BINDS IL-10 WITH A HIGH AFFINITY.
-i- SUBCELLULAR LOCATION: TYPE I MEMBRANE PROTEIN.
-i- SIMILARITY: BELONGS TO THE CLASS II CYTOKINE FAMILY OF RECEPTORS.
 Cavia porcellus (Guinea pig)
                                     TISSUE FACTOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entitles requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Receptor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            EMBL; L12120;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              the European Bioinformatics Institute.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              This SWISS-PROT entry is copyright. It is produced through between the Swiss Institute of Bioinformatics and the EN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STRAIN=C57BL/6 X AJ F1; TISSUE=He
MEDLINE=94068585; PubMed=8248239;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DOMAIN
                                                                                                                                                                                                                                                                                                                     231
                                                                                                                                                                                                                                                                                                                                                                                         172
                                                                                                                                                                                                                                                                                                                                                                                                                            120
                                                                                                                                                                                                                                                                                                                                                                                                                                                              130
                                                                                                                                                                                                                 286
                                                                                                                                                                                                                                                                                    233
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 74
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     u
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LIPCLLT-----DEVAI---LPAPQNLSVLSTNMKHLLMWSPVIAPGETVYYSVEYQGE
                                                                                                                                                                                                                 LCPETPDAIHIVD
                                                                                                                                                                                                                                                                                                                 I-----PLVLALFAFVGFMLILVVVPLFVWKMGRLLQYSCCPVVVL-------
                                                                                                                                                                                                                                                                                                                                                                                                                                                              PFNRNSTILT ---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 YESLYTSHIWIPSSWCSLTEGPECDVT----DDITATVPYNLRVRATLGSQTSAWSILKH 129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LLPFLYTISSLSLEFIAYGTELPSPSYVWFEARFFQHILHWKPIPNQSESTYYEVALK--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MGI:96538;
                                                                                                                                                                                                                                                                                 YETVTNLSILVISMLLFCG-ILVCLVLQWYIRHPGKL-----PTVLVFKKPHDFFPANP
                                                                                                                                                                                                                                                                                                                                                       ELKNATKRVKQETFTLTVPIGVR------KFCVKVLPRLESRINKAEWSEEQCLLITTEQ
                                                                                                                                                                                                                                                                                                                                                                                      REPGAEEHVKM-VRSGGIPVHLETMEPGAAYCVKAQTFVKAIGXYSAFSQTECVEVQGEA
                                                                                                                                                                                                                                                                                                                                                                                                                          RFTVDEVILTVDSVTLKAMDGIIYGTIHPPRPTITPAGDEYEQVFKDL-RVYKISIRKFS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ---QYGNSTWNDIHICRKAQALSCDLTTFTLDLYHRSYGYRARVRAVDNSQYSNWTTTET
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          64;
                                                                                                                                                                                                                                                --PDTLKITN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Transmembrane;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               242
263
204
50
66
113
182
238
                                                        (Rel:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAA16156.1; -.
                                     PRECURSOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Α
                                                                                                                         STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ill0ra
                                               40, Created)
40, Last sequence update)
40, Last annotation update
                                                                                                                                                                                                                                                  279
                                                                                                                                                                                                                 298
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              16
575
241
262
275
575
225
225
113
113
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          F1; TISSUE=Hematopoietic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 64248
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          20.48;
                                    (TF) (COAGULATION FACTOR III).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Glycoprotein;
POTENTIAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Œ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                            -----RPGMEIXKXGFHLVIELEDLGPQFEFLVAYWX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        53;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          N-LINKED (GLCNAC...
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 125.5; DB
Pred. No. 0.0011
3; Mismatches 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CYTOPLASMIC (POTENTIAL). POTENTIAL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     EXTRACELLULAR (POTENTIAL).
                                                                                                                          PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       INTERLEUKIN-10 RECEPTOR ALPHA CHAIN.
                                                                                                                          289
                                                        update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Signal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          There are no restrictions on ong as its content is in no
                                                                                                                         ₽
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        121;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (POTENTIAL).
(POTENTIAL).
(POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           575;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   EMBL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      75;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    מ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   collaboration
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                            171
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   62
                                                                                                                                                                                                                                                                                                                                                       232
                                                                                                                                                                                                                                                                                                                                                                                        230
                                                                                                                                                                                                                                                                                                                                                                                                                          178
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               119
                                                                                                                                                                                                                                                                                                                     271
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        12;
                                                                                   Ş
                                                                                                                                                      δ
                                                                                                                                                                                                                          δÃ
                  S
                                                    밁
                                                                                                                         밁
                                                                                                                                                                                             밁
                                                                                                                                                                                                                                                                밁
                                                                                                                                                                                                                                                                                             Š
                                                                                                                                                                                                                                                                                                                                                                                                                          STITE TO THE TENT OF THE TENT 
                                                                                                                                                                                                                                                                                                                                   Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SITE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SITE
                                                    181
                  220
                                                                                                                         121
                                                                                      166
                                                                                                                                                           132
                                                                                                                                                                                             72
                                                                                                                                                                                                                            74
                                                                                                                                                                                                                                                              15
```

```
Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CARBOHYD
DISULFID
DISULFID
LIPID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CARBOHYD
CARBOHYD
CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Structure among six mammalian species.";

Thromb. Haemost. 8:455-461(2000).

-i- FUNCTION: INITIATES BLOOD COAGULATION BY FORMING A COMPLEX WITH CIRCULATING FACTOR VII OR VIIA. THE [TF:VIIA] COMPLEX ACTIVATES FACTORS IX OR X BY SPECIFIC LIMITED PROTOLYSIS. TF PLAYS A ROLE NORMAL HEMOSTASIS BY INITIATING THE CELL-SURFACE ASSEMBLY AND PROPAGATION OF THE COAGULATION PROTEASE CASCADE.

-i- SUBCELLULAR LOCATION: TYPE I MEMBRANE PROTEIN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TISSUE-Lung;
MEDLINE-20206020; PubMed-10744153;
Shi R.J., Li W.Z., Marder V.J., Sporn L.A.;
"Cloning of guinea pig tissue factor cDNA: comparison of primary
"Cloning of guinea pig tissue factor cDNA: comparison of primary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Pfam; PF01108; Tissue_fac; 1.
PRINTS; PR00346; TISSUEFACTOR.
PROSITE; PS00621; TISSUE_FACTOR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Glycoprotein;
Palmitate.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Hystricognathi; Caviidae; Cavia.
NCBI_TaxID=10141;
[1]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CHAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    InterPro;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EMBL; AF131949; AAF36523.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                              SUBCELLULAR LOCATION: TYPE I MEMBRANE PROTEIN.
SIMILARITY: BELONGS TO THE TISSUE FACTOR FAMILY.
                    QTECV---
                                                          MLYYW-RSSTTGKKTAMTNTNEF---LIDVDKGQDYCF---
                                                                                                LVAYWXREPGAEEHVKMVRSGGIPVHLETMEPGAAYCVKAQTFVKAI----
                                                                                                                                      YSNSPEFTPYQETNLGQPKIESFKLYGTKLNYTVRDTQTLARSNGTFLSLRDIFGKNLQY
                                                                                                                                                                            NRNS-----
                                                                                                                                                                                                                                                  YESLYTSHIWIPSSWCSLTEGPECDVTDDITATV--PYNLRVRATLGSQTSAWSILKHPF 131
                                                                                                                                                                                                                                                                                          AVVPTLLLGWVLVQVAGAEGIPVKPYNLTWKSTNFKTILEWEP - - KPINNV - YTVQISTA
                                                                                                                                                                                                                                                                                                                                                                        69;
                                                                                                                                                                                                                                                                                                                                                                                          Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  IPR001187;
                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                  -W--KSICFSITATECDLTSEMAPNVQQTYLARVISLLPNST---GFLEDAV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Blood
                                                                                                                                                                                                                                                                                                                                                                                                                                                               32
289
247
268
289
46
47
41
111
111
151
153
164
271
32456
                                                                                                                                                                            -TILTRPGMEIXK-XGFHLVIELED------
                    EVQGEAIPLVLALFAFVGFMLILVVVPLFV
..
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     coagulation;
                                                                                                                                                                                                                                                                                                                                                                                        7.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WW;
                                                                                                                                                                                                                                                                                                                                                                        35;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   N-LINKED
                                                                                                                                                                                                                                                                                                                                                                                        Score 121.5; DB Pred. No. 0.0011;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BY SIMILARITY.
BY SIMILARITY.
PALMITATE (BY SIMILARITY).
7AB97F8F58199FB1 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             POTENTIAL.
CYTOPLASMIC (POTENTIAL).
WKS MOTIF.
WKS MOTIF.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       N-LINKED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TISSUE FACTOR.
EXTRACELLULAR (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   N-LINKED
                                                                                                                                                                                                                                                                                                                                                                        Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SIMILARITY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Transmembrane;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FALSE_NEG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (GLCNAC...)
(GLCNAC...)
(GLCNAC...)
                                                                                                                                                                                                                                                                                                                                                                        98;
                                                                                                                                                                                                                                                                                                                                                                                                           1;
                                                          -FVQAVIPSRKDNKKSPES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Signal; Lipoprotein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 :::
                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                             Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (POTENTIAL).
(POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                               289;
                                                                                              -GXYSAFS
                                                                                                                                                                            -LGPQFEF
                                                                                                                                                                                                                                                                                                                                                                      81;
                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                  120
                                                                                                                                                                                                                                                                                          71
                                                                                                219
                                                                                                                                      180
                                                                                                                                                                            165
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            N
                                                                                                                                                                                                                                                                                                                                                                      16;
```

밁

233

ITVCTRLEKGKFREMSFIVVPVIL---

-VIIVVIALFL

```
RESULT 13
INGR HUMAN
ID INGR HOMAN
ID IN 15260
AC P15260
DT 01-APR
DT 01-APR
DT 01-APR
DT INTERE
GN IFNGRJ
OC EUKARZ
OC EUKARZ
OC MAMMAJ
OX NCBI_
RN SEQUE
  01-APR-1990
01-APR-1990
01-OCT-2000
                                                                                                                                                                                                                        Fountoulakis M., Garotta G., Winkler F
Observation of an unexpected third re
structure of human interferon gamma re
Structure 8:927-936(2000).
                                                                      This
                                                                                                                                                                                                                                                                                                                                                   "Neutralizing epitopes on the extracellular interferon gamma receptor (IFNgammaR) alpha-chain characterized by homolog scanning mutagenesis and X-ray crystal structure of the A6 fab-IFNgammaR1-108 complex."; J. Mol. Biol. 273:882-897(1997).
                                                                                                                                                                                                                                                                                                                                                                                                        X-RAY CRYSTALLOGRAPHY (2.8 ANGSTROMS) OF MEDILINE-98035727; PubMed-9367779; Sogabe S., Stuart F., Henke C., Bridges A Winkler F.K., Robinson J.A.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        zauodny P.J., Narula S.K.;
"Crystal structure of a complex between
soluble high-affinity receptor.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE FROM N.A. MEDLINE-89003065; Aguet M., Dembic Z
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             P15260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Walter M.R., Windsor W.T., Nagabhushan T.L., Zauodny P.J., Narula S.K.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              X-RAY CRYSTALLOGRAPHY (2.9 ANGSTROMS)
MEDLINE-95342235; PubMed-7617032;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Stueber D., Friedlein A., Fountoulakis M., "Alignment of disulfide bonds of the extra
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Eukaryota;
Mammalia;
              modified
                                                        between
                                                                                                                                                                                                                                                                                               Thiel D.J., le Du M.-H.,
                                                                                                                                                                                                                                                                                                            PubMed-10986460;
                                                                                                                                                                                                                                                                                                                          X-RAY CRYSTALLOGRAPHY
                                                                                                                                                                                                                                                                                                                                         5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Nature 376:230-235(1995).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Biochemistry
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       interferon gamma receptor and investigation
biological activity.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDLINE-93183911;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DISULFIDE BONDS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  receptor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               "Molecular cloning and expression
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            INGR_HUMAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        INTERFERON-GAMMA
                                                                                                                      INTERFERON-GAMMA DIMER.
SUBUNIT: MONOMER.
SUBCELLULAR LOCATION: TYPE I MEMBRANE PROTEIN.
SUBCELLULAR LOCATION: TYPE I MEMBRANE PROTEIN.
PTM: PHOSPHORYLATED AT SER/THR RESIDUES.
SIMILARITY: CONTAINS 2 IMMUNOGLOBULIN-LIKE C2-TYPE DOMAINS.
SIMILARITY: CONTAINS 2 FIBRONECTIN TYPE III-LIKE DOMAINS.
SIMILARITY: BELONGS TO THE CLASS II CYTOKINE FAMILY OF RECE
            European Bioinformatics Institute. The by non-profit institutions as long ified and this statement is not removed.
                                                                                            WWW-"http://www.ncbi.nlm.nih.gov/prow/cd/cdw119.htm".
                                                                                                          DATABASE: NAME-PROW; NOTE=CD guide CDw119 entry;
                                                                  SWISS-PROT entry is copyright. It is produced through
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     55:273-280(1988).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            sapiens (Human)
                                                     the Swiss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Metazoa;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (Rel. 14, Created)
(Rel. 14, Last seq
(Rel. 40, Last ann
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          32:2423-2430(1993).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     . 14, Last sequence update)
. 40, Last annotation update)
. RECEPTOR ALPHA CHAIN PRECURSOR (CDW119).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PARTIAL SEQUENCE,
PubMed-8443182;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Z.,
                                                                                                                                                                                                                                                                                Garotta G., Winkler F.K., Ealick S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PubMed=2971451;
Z., Merlin G.;
                       Institute of Bioinformatics and the EMBL outst
formatics Institute. There are no restrictions
t institutions as long as its content is in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Chordata;
Primates;
                                                                                                                                                                                                                                                                                                                          (2.9
                                                                                                                                                                                                                                                                                                                          ANGSTROMS)
agreement
            is not removed.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 of the extracellular domain of their role
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Craniata; Vo
Catarrhini;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                        Bridges A.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                of.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AND
                                                                                                                                                                                                                                                     receptor
                                                                                                                                                                                                                                                                  receptor molecule
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          489
                                                                                                                                                                                                                                                                                                                         OĐ.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              QF
                                                                                                                                                                                                                         GAMMA.
(See http://www
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MUTAGENESIS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Vertebrata; Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       interferon-gamma
                                                                                                                                                                                                                                                                                                                          COMPLEX
                                                                                                                                                                                                                                                                                                                                                                                                                                                   28-122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              26-248
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               human interferon-gamma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ₿
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Hominidae;
                                                                                                                                                                                                                                                                                                                                                                                                                        Williams
                                                                                                                                                                                                                           TWO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Lundell D.J.,
                                                                                                                                                                                                                                                     complex.
              Usage
                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPLEX
                                                                                                                                                                                                                                                                                               Chene C.,
                                                                                                                                                                                                                                                                                                                          HTIW
                                                                                                                                                                                                                           RECEPTORS
                                                                                                                                                                                                                                                                                  M
            Ьy
                                                                                                                                                                                                                                                                                                                                                                                                                        G.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ноло
                                                                                                                                                                                                                                                                                                                            ING
isb-sib
                                                                                                                                                                                                                                                                   in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Garotta
              and
                                                                                                                                                                                                                                                                                                                                                                                                                                                   HTIW
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         and
                                                                                                                                                                                                                                                                                                                                                                                                                        Birch
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    of
1n
                                                        a collaboration -
MBL outstation -
                                                                                                                            RECEPTORS
                                                                                                                                                                                                                           BIND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Lunn
              tor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  the
                                                                                                                                                                                                                                                                                                                                                                                                                                                   ANTIBODY
                                                                                                                                                                                                                                                                   crystal
                                                     outstation
.ch/announce/
                                                                                                                                                                                                                                                                                                                                                                                                                        ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ດ
            in no way commercial
                                                                                                                                                                                                                           ONE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    C.A.,
```

```
RESULT 1
δÃ
                                                                                                                                                                                                                                                  밁
                                                                                                                                                                                                                                                                 δÃ
                                                                                                                                                                                                                                                                                     В
                                                                                                                                                                                                                                                                                                       Qy
                                                                                                                                                                                                                                                                                                                         밁
                                                                                                                                                                                                                                                                                                                                          δÃ
                                                                                                                                                                                                                                                                                                                                                              밁
                                                                                                                                                                                                                                                                                                                                                                             Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                 밁
                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                   Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DOMAIN
DISULFID
DISULFID
DISULFID
DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CARBOHYD
CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CARBOHYD
CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MIM;
                 Ranganathan
Getz M.J.;
                                                                         Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                             F3 OR CF3 OR CF-3.
Mus musculus (Mouse)
                                                                                                              01-FEB-1991 (Rel. 17, Created)
01-AUG-1991 (Rel. 19, Last sequence update)
01-CCT-2000 (Rel. 40, Last annotation update)
TISSUE FACTOR PRECURSOR (TF) (COAGULATION FAC
                                                                                                                                                    P20352;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CHAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GlycoSuiteDB; P15260;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    or send an email to license@isb-sib.ch).
transforming
                                     SEQUENCE FROM N.A. MEDLINE-91093171;
                                                                                                                                                              TF_MOUSE
                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                           CARBOHYD
                                                                NCBI_TaxID=10090;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          [mmunoglobulin
         "Cloning
                                                                                                                                                                                                                               233
                                                                                                                                                                                                                                                   195
                                                                                                                                                                                                                                                                   187
                                                                                                                                                                                                                                                                                      135
                                                                                                                                                                                                                                                                                                         146
                                                                                                                                                                                                             251 VVAALLLFL--VLSLVFICFYIKKINPLKEKS----IILPKSL
                                                                                                                                                                                                                                                                                                                          77
                                                                                                                                                                                                                                                                                                                                             68
                                                                                                                                                                                                                                                                                                                                                              29
                                                                                                                                                                                                                                                                                                                                                                                 35
                                                                                                                                                                                 14
                                                                                                                                                                                                                              LVLALFAFVGFMLILVVVPLFVWKMGRLLQYSCCPVVVLPDTL
                                                                                                                                                                                                                                                                                                                                                                              LPAPQNLSVLSTNMKHLLMWSPVIAPGETVY-----YSVEYQGEYESLYTSHIWIPSSW
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            209950; -
                                                                                                                                                                                                                                                                                                                                                              VPTPTNVTIESYNMNPIVYWEYQIMPQVPVFTVEVKNYGVK-----NSEWIDA-- 76
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      107470;
                                                                                                                                                                                                                                                                                                                         CINISHHYCNISDHVGD--PSNSLWVRVKARVGQKESAYAKSEEFAVCRDGKIGPPKLDI 134
                                                                                                                                                                                                                                                                                                                                           CSLTEGPECDVTDDITATVPYN---LRVRATLGSQTSAWSILKHPFNRNSTILTRPGMEI 145
                                                                                                                                                                                                                                                  CDEIQCQLAIPV---
                                                                                                                                                                                                                                                                                     RKEEKQIMIDIFHPSVFVNGDEQEVDYDPETTCYIRVYNVYVRMNGSEIQYKILTQKEDD
                                                                                                                                                                                                                                                                                                         XKXGFHLVIEL----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   J03143; AAA52731.1;
                                                                                                                                                                                                                                                                                                                                                                                                   61;
                                                                                                                                                                                                                                                                                                                                                                                                 Similarity 21.661; Conservative
          of murine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Transmembrane;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       11-AUG-00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                25-MAR-98
                          G.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                          18
18
246
246
267
77
122
1195
1195
214
34
79
86
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A31555
growth
                                                                                                                                                                                                                                                                   -GIPVHLETMEPGAAYCVKAQTFVKAIGXYSAFSQTECVEVQGEA-----IP
                                                                                                                                                                                                                                                                                                                                                                                                                                                A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          domain;
                                                                                                                                                              STANDARD;
                             Blatti
                           PubMed=1985911;
latti S.P., Subr
tissue factor and
h factor type beta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 245
266
489
167
200
235
235
179
                                                                          Chordata;
Rodentia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                 54404
                                                                                                                                                                                                                                                                                                                                                                                                          7.4%;
                                                                                                                                                                                                                                                                                                        -----EDLGPQFE-FLVAY--WXREPGAEEHVKMVRSG---
                                                                                                                                                                                                                                                  -SSLNSQYCVSAEGVLHVWGVTTEKSKEVCITIFNSSIKGSLWIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          3D-structure
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Glycoprotein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                 3
                                                                                                                                                                                                                                                                                                                                                                                                   54;
                                                                                                                                                                                                                                                                                                                                                                                                  Score 121; DB
Pred. No. 0.00
4; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                       N-LINKED
N-LINKED
N-LINKED
N-LINKED
                            Subramaniam
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CYTOPLASMIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EXTRACELLULAR POTENTIAL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       INTERFERON-GAMMA
                                                                                                                                                                                                                                                                                                                                                                                                                                               N-LINKED (GLCNAC...
N-LINKED (GLCNAC...
N-LINKED (GLCNAC...
N-LINKED (GLCNAC...
N-LINKED (GLCNAC...
DCF9E574D8F47400
                                                                          Craniata; Ver
Sciurognathi;
                                                                                                                                                               PRT;
regulation 1. ";
                                                                                                                                                              294
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Signal;
                                                                                   Vertebrata; Euteleostomi;
                            .
.
                                                                                                                                                                                                                                                                                                                                                                                                             DB 1;
.0022;
                                                                                                                                                              B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (POTENTIAL).
                                                                                                                FACTOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MMA RECEPTOR (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                   102;
                                                                                                                                                                                                                                                                                                                                                                                                                     1;
                                                                           Muridae;
                            Fass
                                                                                                                                                                                                                                                                                                                                                                                                                                                           . .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Phosphorylation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                 CRC64;
          of.
                                                                                                                                                                                                                                                                                                                                                                                                                   Length 489;
                                                                                                               III)
                                                                                                                                                                                                                                275
                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                            D.N.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (POTENTIAL).
(POTENTIAL).
(POTENTIAL).
         gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                           (POTENTIAL)
                                                                           Murinae;
          expression
                            Maihle N.J.,
                                                                           Mus
                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                      194
                                                                                                                                                                                                                                                                                                         186
         γď
                                                                                                                                                                                                                                                                                                                                                                                                    13;
```

```
밁
                       Ş
                                                 밁
                                                                       Ş
                                                                                                  В
                                                                                                                       QY
                                                                                                                                                    밁
                                                                                                                                                                          Š
                                                                                                                                                                                                                                                                                                        Query Match
Best Local
                                                                                                                                                                                                      Matches
                                                                                                                                                                                                                                                                                                                 CARBOHYD
CARBOHYD
CARBOHYD
DISULFID
                                                                                                                                                                                                                                                                              LIPID
CONFLICT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          J. Biol.
[2]
                                                                                                                                                                                                                                                                                                                                                                                SITE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                use by non-profit institutions as long modified and this statement is not removed.
                                                                                                                                                                                                                                                                                                      DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Glycoprotein;
Palmitate.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     EMBL; M57896; AAA63400.1; -. EMBL; M26071; AAA40414.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     This SWISS-PROT entry is copyright. It is produced through a between the Swiss Institute of Bioinformatics and the EMBI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            "A growth factor-responsive gene of murine BALB/c 3T3 cells encodes protein homologous to human tissue factor.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Hartzell S., Ryder K., Lanahan A.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDLINE=89343974; PubMed=2761539;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                  SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                   CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                            DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                          TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                     DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                   CHAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                             SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PROSITE; PS00621;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MGD; MGI:88381; F3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     InterPro; IPR001187; -
                                                                           121
                                                  120
                                                                                                  89
                                                                                                                           74
                                                                                                                                                    12
                                                                                                                                                                             22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Cell. Biol. 9:2567-2573(1989).

FUNCTION: INITIATES BLOOD COAGULATION BY FORMING A COMPLEX WITH CIRCULATING FACTOR VII OR VIIA. THE [TF:VIIA] COMPLEX ACTIVATES FACTORS IX OR X BY SPECIFIC LIMITED PROTOLYSIS. TF PLAYS A ROLE NORMAL HEMOSTASIS BY INITIATING THE CELL-SURFACE ASSEMBLY AND PROPAGATION OF THE COAGULATION PROTEASE CASCADE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         European Bioinformatics Institute.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SUBCELLULAR LOCATION: TYPE I MEMBRANE PROTEIN. SIMILARITY: BELONGS TO THE TISSUE FACTOR FAMILY.
                                                                                                                                                                           ALIP----CLLTDEVAILPAPQ----NLSVLSTNMKHLLMWSPVIAPGETVY-YSVEYQGE 73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A32318; KFMS3.
R-QVFGKDLGYIITYRKGSSTGKKTNITNTNEFSIDV----EEGVSYCFFVQAMIFSRK
                        ELEDLGPQFEFLVAY-WXREPGAEEHVKMVRSGGIPVHLETMEPGAAYC--VKAQTFVKA
                                                                                                                          YESLYTSHIWIPSSWCSLTEGPECDVTDDIT--ATVPYNLRVRATL-----
                                                                                                                                                    ALAPTFLGCLLLQVIAGAGIPEKAFNLTWISTDFKTILEWQ----PKPTNYTYTVQISDR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PF01108; Tissue_fac; 1.
1S; PR00346; TISSUEFACTOR;
TTE; PS00621; TISSUE_FACTOR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            P13726; 1TFH.
                                                                                                                                                                                                                  Similarity
                                                                          ----TSAWSILKHPFNRNSTILTRPGME-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Chem.
                                                                                                  -SRNW--KNKCFSTTDTECDLTDEIVKDVTWAYEAKVLSVPRRNSVHGDGDQLVI
                                                                                                                                                                                                                                                                                                                                         29
252
275
245
245
37
169
                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Blood
                                                                                                                                                                                                                                                                  AA;
                                                                                                                                                                                                                                                                                         28
294
251
274
274
247
247
169
200
83
241
275
                                                                                                                                                                                                                                                                  26
32935
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   coagulation;
                                                                                                                                                                                                                 7.3%;
                                                 RDTNLGQPVIQQFEQDGRKLNVVVKDSLTLVRKNGTFLTL
                                                                                                                                                                                                                                                                  MW;
                                                                                                                                                                                                      39;
                                                                                                                                                                                                                                                                                                    N-LINKED (GLCNAC...)
N-LINKED (GLCNAC...)
N-LINKED (GLCNAC...)
BY SIMILARITY.
BY SIMILARITY.
                                                                                                                                                                                                    Score 119.5; DB Pred. No. 0.0017 9; Mismatches 1
                                                                                                                                                                                                                                                                              PALMITATE (BY SIMILARITY).
I -> T (IN REF. 2).
                                                                                                                                                                                                                                                                                                                                                               N-LINKED (GLCNAC. . .)
                                                                                                                                                                                                                                                                                                                                                                               WKS MOTIF
                                                                                                                                                                                                                                                                                                                                                                                           CYTOPLASMIC (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                      POTENTIAL
                                                                                                                                                                                                                                                                                                                                                                                                                   EXTRACELLULAR (POTENTIAL).
                                                                                                                                                                                                                                                                  A306101293C31FA0 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                              I.
Transmembrane;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Lau L.F.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         There are no restrictions on ong as its content is in no
                                                                                                                                                                                                                          DB 1;
                                                                                                                                                                                                     115;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Usage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Nathans D.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Signal; Lipoprotein;
                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                           Length 294;
                                                                                                                                                                                                                                                                                                                              (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  þу
                                                                                                                                                                                                                                                                                                                                           (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                     (POTENTIAL).
                                                                        ---IXKXGFHLVI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   and for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       EMBL outstation
                                                                                                                                                                                                     ; 68
                                                                                                                           -GSQ---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   collaboration
                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   commercial
                        211
                                                                                                                                                    67
                                                                                                                           120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ĬN
                                                                                                                                                                                                     17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            way
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            its
```

```
뫄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Вþ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BOVIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TF_BOVIN
P30931;
01-JUL-1993
               DISULFID
DISULFID
LIPID
                                                                                                                                                                         InterPro; IPRUVIIO;
Pfam; PF01108; Tissue_fac; 1.
Pfam; PF00108; TissUEFACTOR.
PROSITE; PS00621; TISSUE_FACTOR;
PROSITE; PS00621; TISSUE_FACTOR;
                                                                                                                                                                                                                                                                                                            use by non-profit institutions as long modified and this statement is not removed. entitles requires a license agreement (See
                                                                                                                                                                                                                                                                                                                                                                                                 Takayenoki Y., Muta T., Miyata T., Iwanaga S.;

"CDNA and amino acid sequences of bovine tissue factor.";

Biochem. Biophys. Res. Commun. 181:1145-1150(1991).

-I- FUNCTION: INITIATES BLOOD COAGULATION BY FORMING A COMPLEX WITH

CIRCULATING FACTOR VII OR VIIA. THE [FF:VIIA] COMPLEX ACTIVATES

FACTORS IX OR X BY SPECIFIC LIMITED PROTOLYSIS. TF PLAYS A ROLE

NORMAL HEMOSTASIS BY INITIATING THE CELL-SURFACE ASSEMBLY AND

PROPAGATION OF THE COAGULATION PROTEASE CASCADE.

-I- SUBCELLULAR LOCATION: TYPE I MEMBRANE PROTEIN.

-I- SIMILARITY: BELONGS TO THE TISSUE FACTOR FAMILY.
                                                                                                                                                                                                                                                                                                                                                                            This
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       01-JUL-1993 (Rel. 26, Created)
01-JUL-1993 (Rel. 26, Last sequence u)
01-OCT-2000 (Rel. 40, Last annotation
     SEQUENCE
                                                       CARBOHYD
                                                                                                         DOMAIN
                                                                                                                                               CHAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TISSUE
                                                                     CARBOHYD
                                                                                CARBOHYD
                                                                                                                                  DOMAIN
                                                                                                                                                                                                                                                                          EMBL; S74147; AAB20755.1;
                                                                                                                                                                                                                                                                                                   or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                  the European Bioinformatics Institute.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDLINE=92109720; PubMed=1764065;
Takayenoki Y., Muta T., Miyata T.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mammalia; Eutheri
Bovidae; Bovinae;
                                                                                                                                                           SIGNAL
                                                                                                                                                                       Palmitate
                                                                                                                                                                                                                                               PIR; JQ1319; KFBO3.
HSSP; P24055; 1A21.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FISSUE=Adrenal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NCBI_TaxID=9913;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Eukaryota;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Bos taurus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           285
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    15
                                                                                                                                                                                                                                                                                                                                                              SWISS-PROT entry is copyright. It is produced through a collaboration een the Swiss Institute of Bioinformatics and the EMBL outstation -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  VVVLPDTLKITNSPQKL 284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TNQNSPGSSTVCTEQWKSFLGETLIIVGAVVLLATIFIILLSISLCKRRKNRAGQ-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    IGXYSAFSQTECVE----VQGEAIPLVLALFAFVGFMLILVVVPLFVWKMGRLLQYSCCP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Metazoa;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (Bovine).
                                          36
36
249
272
272
46
43
153
181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           -KGKNTPSRL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Rel. 40, Last annotation update)
PRECURSOR (TF) (COAGULATION FAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            gland
35
292
248
271
292
48
43
153
153
153
274
238
274
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STANDARD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AND PARTIAL SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Cetartiodactyla;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Chordata;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           293
     Œ;
  N-LINKED (GLCNAC...) (PO)
N-LINKED (GLCNAC...) (PO)
N-LINKED (GLCNAC...) (PO)
BY SIMILARITY.
BY SIMILARITY
BY SIMILARITY
PALMITATE (BY SIMILARITY).
W; 5E471D92BFBCE163 CRC64;
                                                                                                      CYTOPLASMIC (POTENTIAL).
                                                                                                                               TISSUE FACTOR.
EXTRACELLULAR
                                                                                             WKS MOTIF.
                                                                                                                       POTENTIAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Craniata; Vertebrata; Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRT;

    Transmembrane;

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ruminantia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           292
                                                                                                                                                                                                                                                                                                             moved. Usage by and for (See http://www.isb-sib.
                                                                                                                                                                                                                                                                                                                                     There are no rest
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ₽
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FACTOR
                                                                                                                               (POTENTIAL)
                                                                                                                                                                                 Signal; Lipoprotein;
                                                     .) (POTENTIAL)
.) (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Pecora;
                                                                    (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                     restrictions
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Bovoidea;
                                                                                                                                                                                                                                                                                                                            for
                                                                                                                                                                                                                                                                                                              .ch/announce/
                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                       no
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Z
                                                                                                                                                                                                                                                                                                                                      way
```

Query Match
Best Local Similarity
Matches 49; Conser

Conservative

39;

7.0%;

Score 114.5; DB Pred. No. 0.0046;

DB 1;

Length

292;

57;

Gaps

9;

40 NISVISTNMKHLLMWSPVIAPGETVYYSVEYQGEYESLYTSHIWIPSSWCSLTE 93 :: : :	₽ δ	Ωу	Db Qy	Qу	ОУ
a c. a a c. c.	247 LVVVPLEV 254 :::: : 259 VIIIFIVV 266	3	LGPQI RTLVRANSAFLSLRDVFGKDI	GPECDYTDDITATVPYNLRVRATLGSQTSAMSILKHPFNRN	40 NLSVLSTNNKHLLMWSPVIAPGETVYYSVEYQGEYESLYTSHIWIPSSWCSLTE 93 :: :

Search completed: October 12, 2001, 16:11:25 Job time: 112 sec